

STR-DE310

SERVICE MANUAL

*US Model
Canadian Model*

- STR-DE310 is similar to the earlier STR-DE305 model.
- Refer to STR-DE305 service manual (9-960-470-XX) for information not contained in this service manual.

• DIFFERENCE TABLE

NOTE:

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Page	STR-DE305			STR-DE310		
	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
26			EXPLODED VIEWS *****			EXPLODED VIEWS *****
	1	X-4946-863-1	PANEL ASSY, FRONT (US, Canadian)	1	X-4948-421-1	PANEL ASSY, FRONT
28	* 64	4-980-651-01	PANEL, BACK (MALAYSIA PRODUCT) (US)	* 64	4-980-651-62	PANEL, BACK (CHINA PRODUCT) (US)
				* 64	4-980-651-81	PANEL, BACK (MALAYSIA PRODUCT)(US)
	* 64	4-980-651-11	PANEL, BACK (MALAYSIA PRODUCT) (Canadian)	* 64	4-980-651-72	PANEL, BACK (CHINA PRODUCT) (Canadian)
35			ACCESSORIES & PACKING MATERIALS *****			ACCESSORIES & PACKING MATERIALS *****
	3-810-995-21		MANUAL, INSTRUCTION (ENGLISH) (US, Canadian, AUS)	3-859-380-31		MANUAL, INSTRUCTION (ENGLISH) (US)
	3-810-995-31		MANUAL, INSTRUCTION (FRENCH) (Canadian)	3-859-380-21		MANUAL, INSTRUCTION (FRENCH) (Canadian)

FM STEREO / FM-AM RECEIVER

SONY®



996089111



STR-DE305

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model
Australian Model
Chinese Model

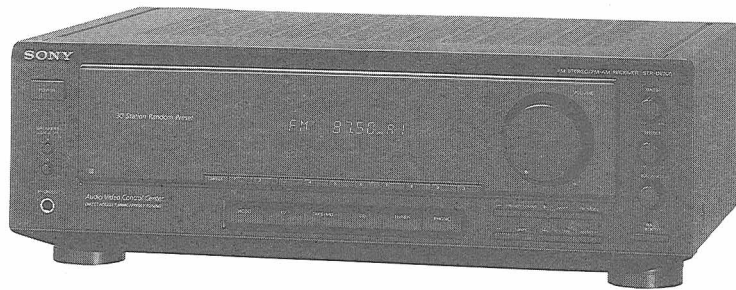


Photo : US model

SPECIFICATIONS

Audio power specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 20 - 20,000 Hz, rated 100 watts per channel minimum RMS power, with no more than 0.1 % total harmonic distortion from 150 milliwatts to rated output. (US Model)

Amplifier section

Power output
EXCEPT US, AEP,
German model :
100 W+100 W
(8ohm, 20 - 20kHz, 0.1% THD)
AEP, German model :
90 W+90 W
(DIN 1kHz, 4 ohms)

Frequency response PHONO: RIAA
equalization curve
 ± 0.5 dB
CD, TAPE/MD, VIDEO:
10 Hz - 50 kHz ± 1 dB

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO (MM)	2.5 mV	50 kilohms	74 dB 72 dB* (A, 2.5 mV)
CD	200 mV		
TAPE/ MD, TV, VIDEO	150 mV	50 kilohms	82 dB 82 dB (A, 150 mV)

Outputs TAPE/MD REC OUT:
Voltage 150 mV,
Impedance 10 kilohms
VIDEO AUDIO OUT:
Voltage 150 mV,
Impedance 10 kilohms
PHONES: Accepts low
and high impedance
headphones

Muting Full mute
BASS BOOST +10 dB at 70 Hz
TONE ± 8 dB at 100 Hz and
10 kHz

FM tuner section

Tuning range 87.5 - 108.0 MHz
Antenna terminals 75 ohms, unbalanced
300 ohms, unbalanced
Sensitivity Mono: 18.3 dBf, 4.5 μ V
Stereo: 38.3 dBf, 45 μ V

Usable sensitivity 11.2 dBf, 2 μ V (IHF)

S/N Mono: 76 dB
Stereo: 70 dB

Harmonic distortion at 1 kHz Mono: 0.3 %
Stereo: 0.5 %

Separation 45 dB at 1 kHz

Frequency response 30 Hz - 15 kHz ± 0.5 dB

Selectivity 60 dB at 400 kHz

AM tuner section

Tuning range US, Canadian model :
530 - 1,710 kHz (10 kHz*)
531 - 1,710 kHz (9 kHz)
EXCEPT US, Canadian model :
530 - 1,610 kHz (10 kHz*)
531 - 1,602 kHz (9 kHz)

Antenna Loop antenna

Usable sensitivity 50 dB/m (at 1,000 kHz or
999 kHz)

S/N 54 dB (at 50 mV/m)

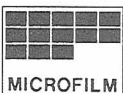
Harmonic distortion 0.5 % (50 mV/m,
400 Hz)

Selectivity At 9 kHz: 35 dB
At 10 kHz: 40 dB

* You can change the AM tuning interval to 9 kHz. After tuning in any AM station, turn off the receiver. Hold down the TUNING + button and press the POWER button. All preset stations will be erased when you change the interval. To reset the interval to 10 kHz, repeat the procedure.

— Continued on page 2 —

FM STEREO/FM-AM RECEIVER
SONY®



* '78 IHF

General

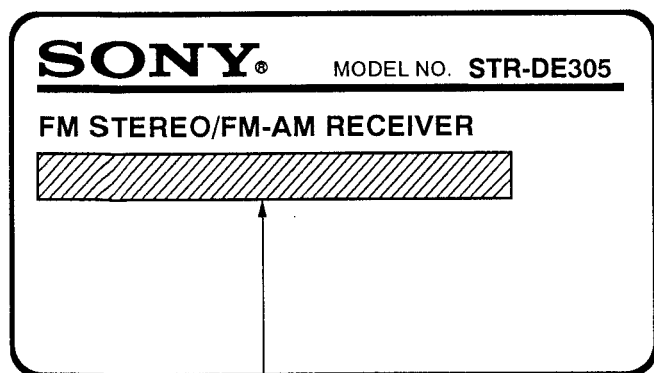
System	Tuner section: PLL quartz-locked digital synthesizer system Preamplifier section: Low-noise NF type equalizer Power amplifier section: Pure-complimentary SEPP
Power requirements	US, Canadian model : 120 V AC, 60Hz E model : 120/220/240 V AC, 50/60 Hz adjustable Australian model : 240 V AC, 50/60Hz AEP, German, Singapore, Malaysia, Chinese model : 220-230 V AC, 50/60Hz
Power consumption	US model : 175 W Canadian model : 270 VA E model : 200 W Australian model : 210 W AEP, German, Singapore, Malaysia, Chinese model : 180 W
AC outlets	1 switched, total 120 W/ 1A Max
Dimensions	17 x 5 7/8 x 11 1/4 inches (430 x 148 x 295 mm)
Mass (Approx.)	7.0 kg (15 lb 6 oz)
Supplied accessories	FM wire antenna (1) AM loop antenna (1) Remote controller (remote) (1) Size AA (R6) batteries (2)

Design and specifications are subject to change without notice.

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MODEL IDENTIFICATION



US, Canadian model : AC 120V 60Hz
 Australian model : AC 240V~50/60Hz
 E model : AC 120, 220, 240V selectable~50/60Hz
 AEP, German, Singapore,
 Malaysia, Chinese model : AC 220-230V~50/60Hz

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

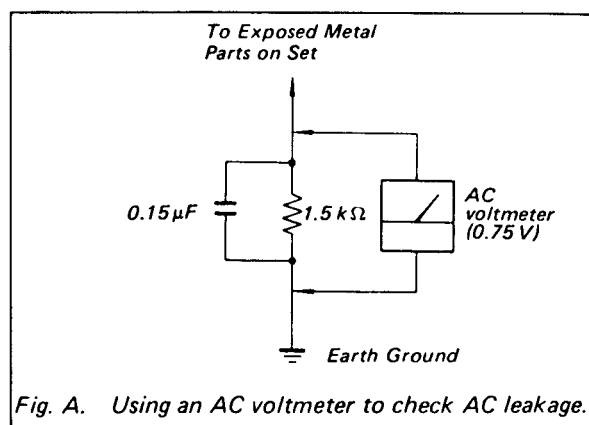
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

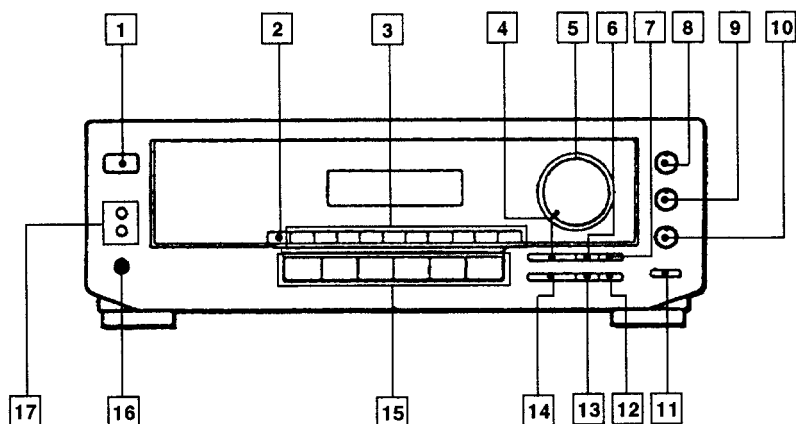
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



SECTION 1 GENERAL

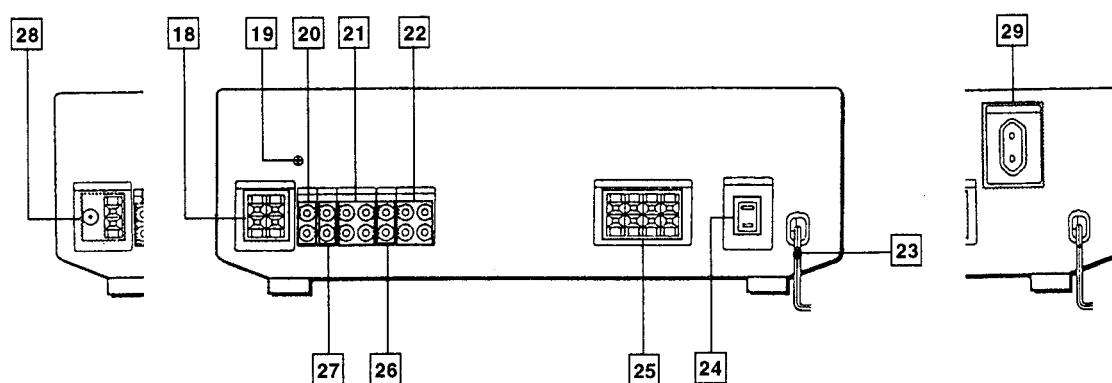
LOCATION AND FUNCTION OF CONTROLS

[FRONT PANEL]



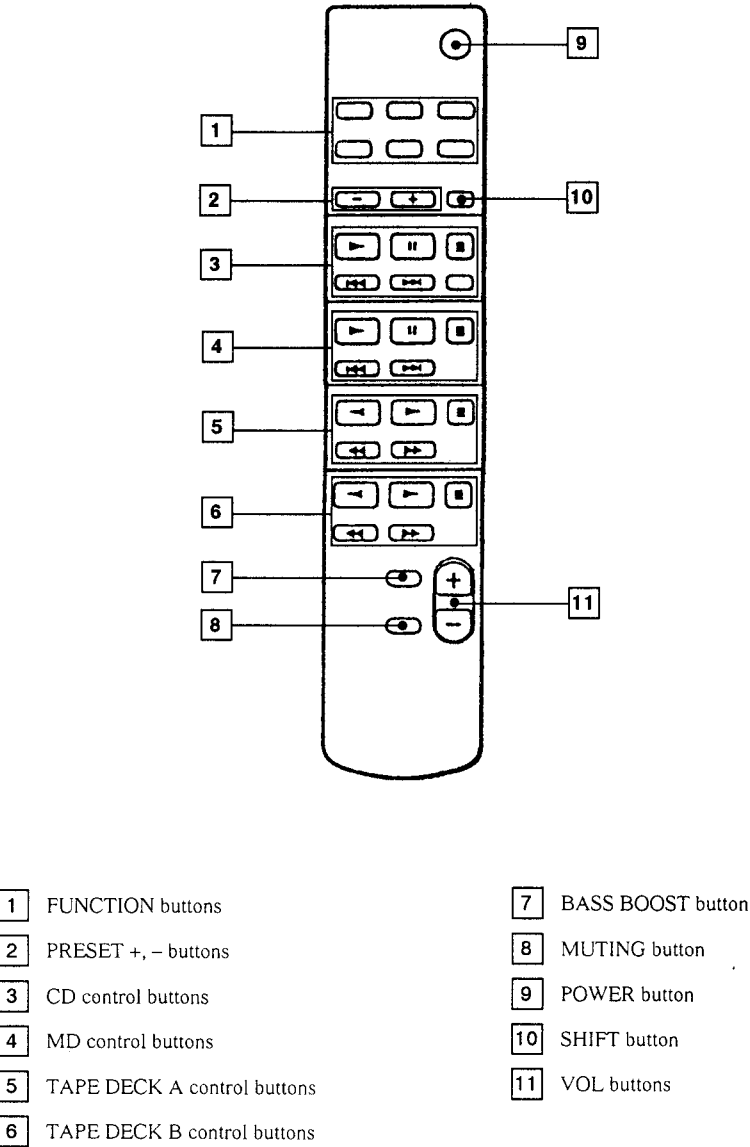
- | | |
|------------------------------|------------------------|
| 1 POWER switch | 10 BALANCE control |
| 2 DIRECT button | 11 BASS BOOST button |
| 3 Numeric buttons | 12 MEMORY button |
| 4 PRESET TUNING +, - buttons | 13 FM/AM button |
| 5 VOLUME control | 14 TUNING +, - buttons |
| 6 SHIFT button | 15 Function buttons |
| 7 FM MODE button | 16 PHONES jack |
| 8 BASS control | 17 SPEAKERS switches |
| 9 TREBLE control | |

[REAR PANEL]



- | | |
|--|--|
| 18 ANTENNA (AM/FM) (US, Canadian, E model) | 24 SWITCHED AC OUTLET (US, Canadian, E model) |
| 19  Ground terminal | 25 FRONT SPEAKERS (A/B) |
| 20 PHONO | 26 TV |
| 21 TAPE/MD | 27 CD |
| 22 VIDEO | 28 ANTENNA (AM/FM) (EXCEPT US, Canadian, E model) |
| 23 AC power cord | 29 SWITCHED AC OUTLET (EXCEPT US, Canadian, E model) |

[Remote]



SECTION 2
EXPLANATION OF IC TERMINALS

IC201 (μ PD78044AGF-165-3B9)

Pin No.	Pin name	I/O	Description
1	DIG7	O	Fluorescent indicator tube drive.
2	DIG6	O	
3	DIG5	O	
4	DIG4	O	
5	DIG3	O	
6	DIG2	O	
7	DIG1	O	
8	+5V	—	Power supply. (+5V)
9	$\overline{\text{S. CLK}}$	I	System clock.
10	$\overline{\text{S. DATA}}$	I	System data.
11	$\overline{\text{PLL. DATA}}$	I	PLL data input from TU001.
12	S. CE (LC7288)	O	Chip enable output.
13	$\overline{\text{S. CE}}$ (LV100)	—	Not used. (Open)
14	VERISON	I	Input for model select.
15	$\overline{\text{PROTECT}}$	I	Protector detect input.
16	BRIDGE	—	Not used. (Open)
17	$\overline{\text{RESET}}$	I	System reset terminal.
18	$\overline{\text{AUTO-STOP}}$	I	Auto stop detect input.
19	$\overline{\text{STEREO-IN}}$	I	Stereo detect input.
20	AVss	—	Ground.
21	SP-RY	O	Speaker relay drive.
22	SURR-RY	—	Not used. (Open)
23	POWER-RY	O	Power relay drive.
24	DOWN	O	Volume down control.
25	UP	O	Volume up control.
26	SIGNAL	I	A/D signal input terminal.
27	A/D2	I	A/D2 key input terminal.
28	A/D1	I	A/D1 key input terminal.
29	AVDD	—	Power supply. (+5V)
30	AV. REF	—	Reference voltage. (+5V)
31	GND	—	Ground.
32	NC	—	Not used. (Open)
33	Vss	—	Ground.
34	X1	—	System clock. (4.19MHz)
35	X2	—	System clock. (4.19MHz)
36	IC. MUTE	O	Mute drive output for μ PD2581 (IC701).
37	$\overline{\text{HALL}}$	—	Not used. (Open)
38	$\overline{\text{THEATER}}$	—	Not used. (Open)
39	$\overline{\text{PROLOGIC}}$	—	Not used. (Open)
40	T. MUTE	O	Tuner mute drive output.

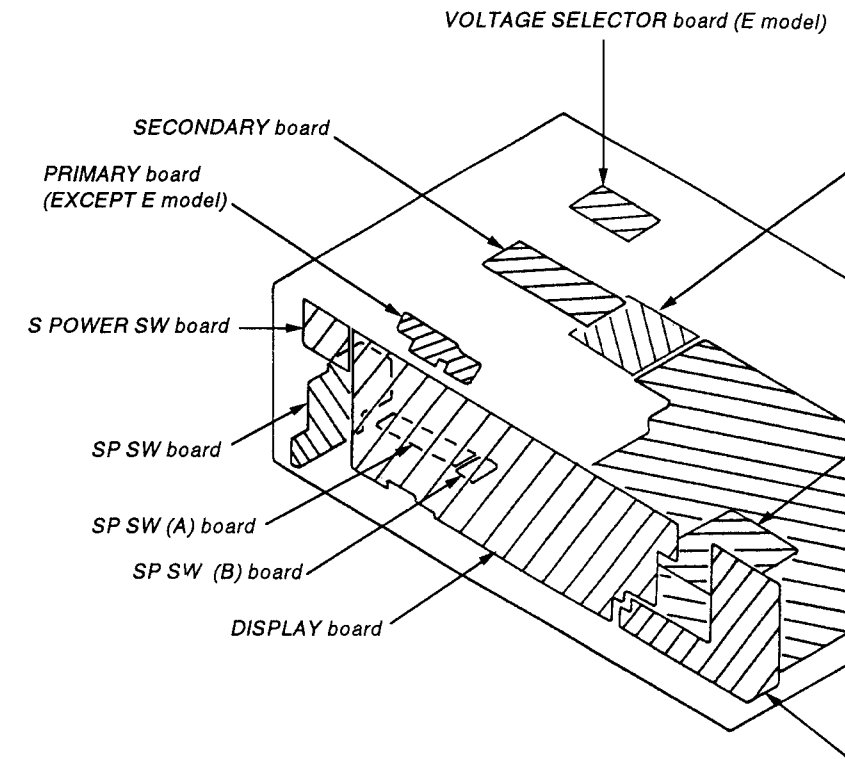
SECTION 2
ION OF IC TERMINALS

Description
indicator tube drive.
(+5V)
from TU001.
tput.
n)
l select.
t input.
n)
rminal.
t input.
put.
rive.
n)
ve.
ontrol.
trol.
ut terminal.
terminal.
terminal.
(+5V)
ge. (+5V)
n)
4.19MHz)
4.19MHz)
ut for μ PD2581 (IC701).
n)
n)
n)
e output.

Pin No.	Pin name	I/O	Description
41	VIDEO	—	Not used. (Open)
42	TV/LD	—	Not used. (Open)
43	STANDBY	O	Standby LED drive.
44	SYS. POWER	I	System power ON/OFF.
45	RDS. DATA. IN	I	RDS data input. (AEP, SP, MY, CH model)
46	RDS. CLK. IN	I	RDS clock signal input. (AEP, SP, MY, CH model)
47	STOP	I	Stop signal input from NJM2103D (IC950).
48	Vss	—	Ground.
49	SIRCS	I	SIRCS signal input.
50	POWER SW	I	Power switch input terminal.
51	NC	—	Not used. (Open)
52	+5V	—	Power supply. (+5V)
53	BASS BOOST	—	Bass boost LED drive.
54	FUNC. MUTE	O	Line mute drive.
55	NC	—	Connect to ground.
56	KI5	I	Key in 5.
57	KI4	I	Key in 4
58	KI3	I	Key in 3
59	KI2	I	Key in 2
60	KI1	I	Key in 1.
61	GND	—	Ground.
62	S15	O	Key out 15.
63	S14	O	Key out 14.
64	S13	O	Key out 13.
65	S12	O	Key out 12.
66	S11	O	Key out 11.
67	S10	O	Key out 10.
68	S9	O	Key out 9.
69	S8	O	Key out 8.
70	S7	O	Key out 7.
71	VLOAD	—	Connect to ground.
72	S6	O	Key out 6.
73	S5	O	Key out 5.
74	S4	O	Key out 4.
75	S3	O	Key out 3.
76	S2	O	Key out 2.
77	S1	O	Key out 1.
78	DIG10	O	Fluorescent indicator tube drive.
79	DIG9	O	
80	DIG8	O	

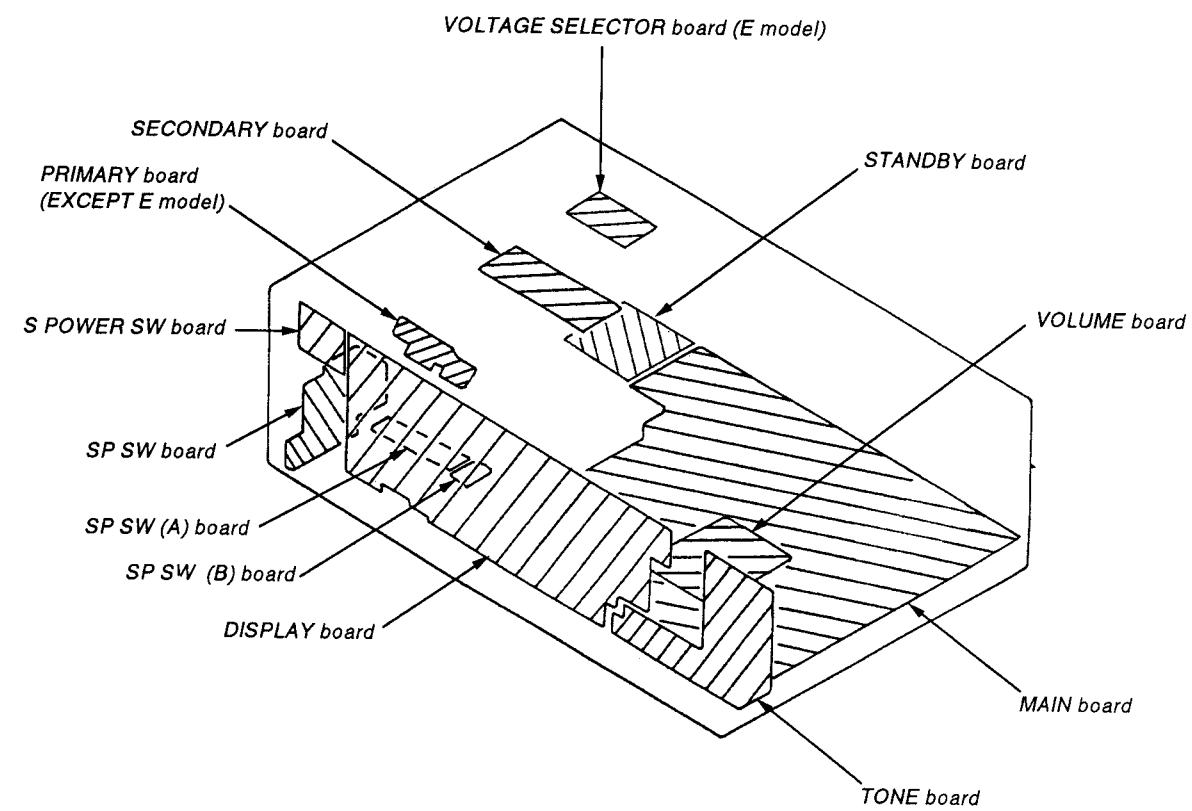
SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION

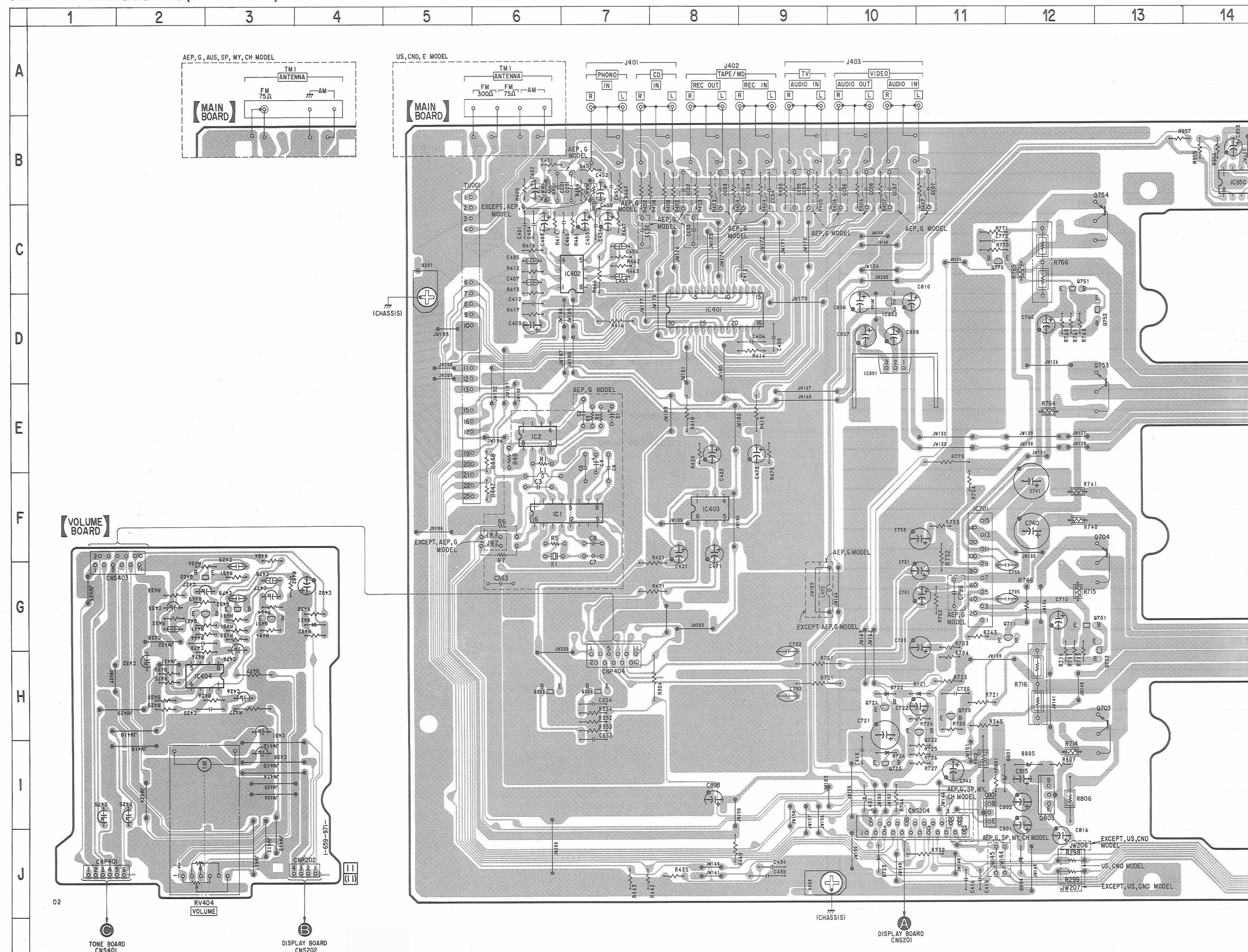
[illegible]

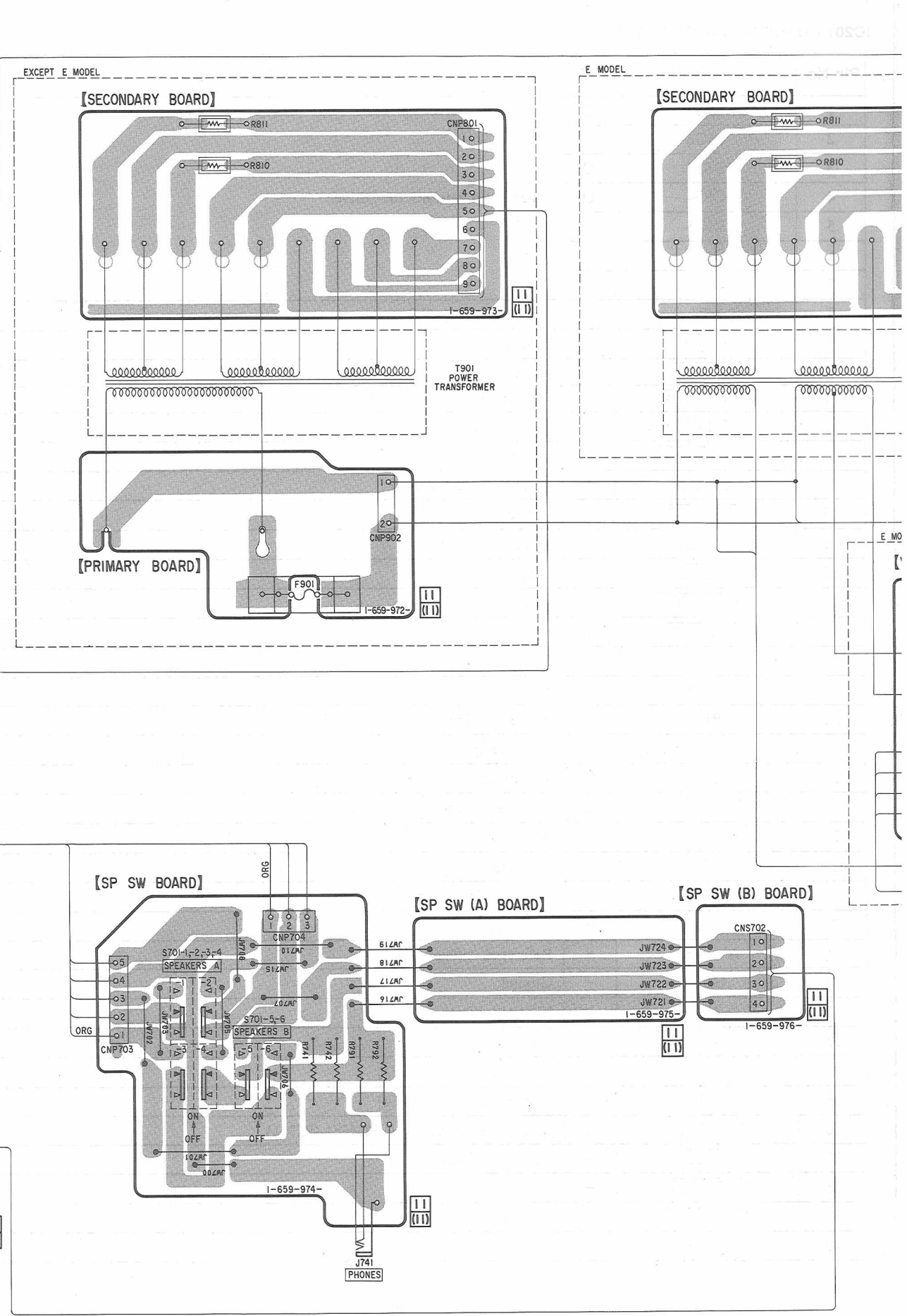
● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D421	G - 4	Q303	H - 6
D710	J - 15	Q304	H - 7
D721	H - 10	Q401	G - 2
D722	H - 10	Q402	G - 2
D723	J - 10	Q451	G - 3
D724	I - 10	Q452	G - 3
D801	I - 11	Q701	G - 12
D802	E - 16	Q702	H - 13
D804	J - 12	Q703	H - 13
D805	I - 12	Q704	F - 13
D810	C - 17	Q710	J - 16
D811	C - 17	Q711	G - 11
D812	C - 17	Q720	H - 11
D813	C - 17	Q721	H - 10
D814	C - 16	Q722	H - 11
D815	C - 16	Q723	I - 10
D816	D - 29	Q751	C - 12
D820	D - 17	Q752	D - 13
D821	D - 16	Q753	D - 13
D822	D - 16	Q754	C - 13
D823	D - 16	Q770	C - 11
		Q801	I - 11
		Q802	C - 17
		Q803	I - 12
		Q951	B - 15
IC1	E - 6		
IC2	F - 6		
IC401	D - 8		
IC402	C - 7		
IC403	F - 8		
IC404	H - 2		
IC701	F - 11		
IC801	D - 10		
IC802	D - 10		
IC950	B - 14		

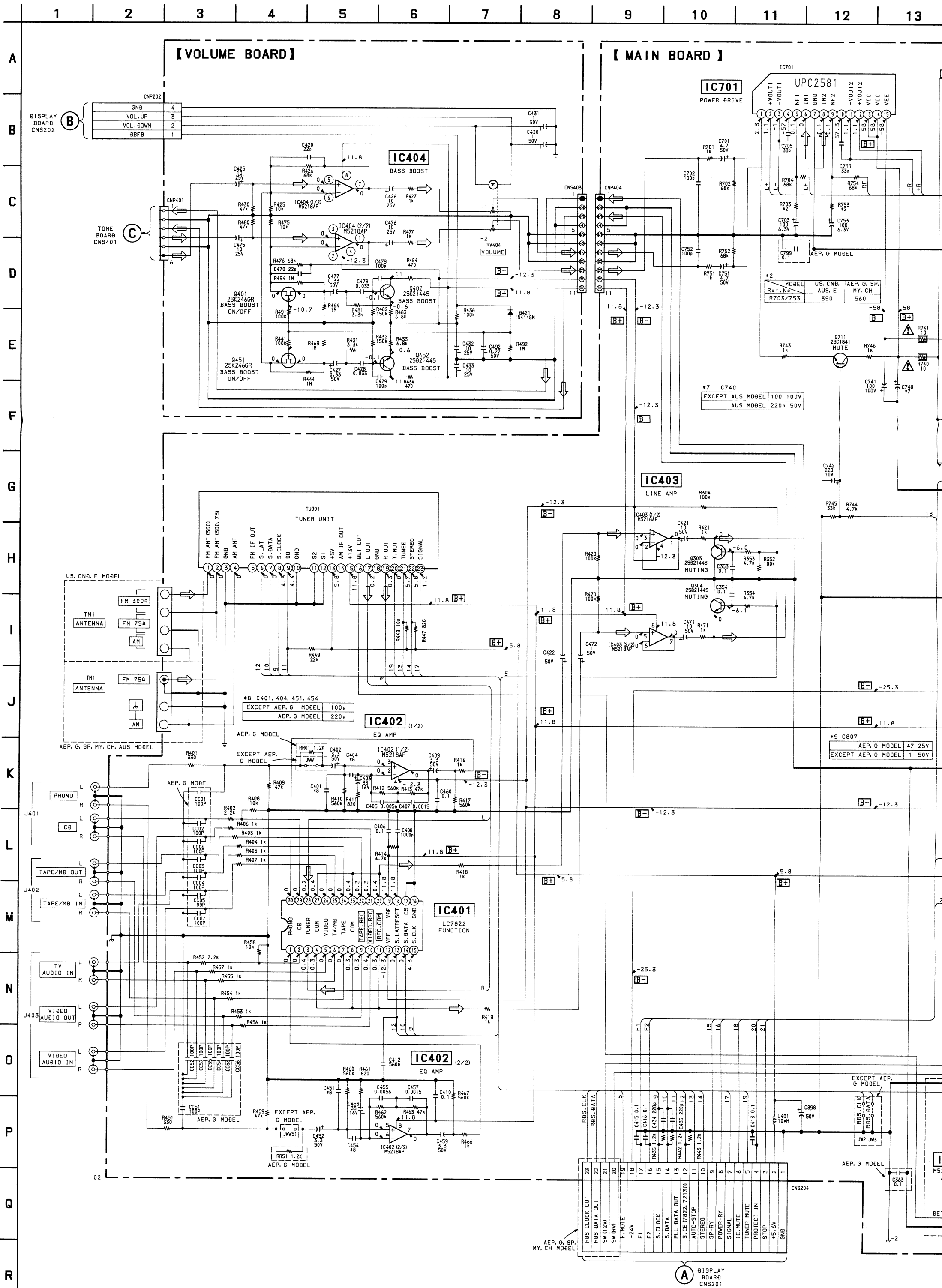
Note:

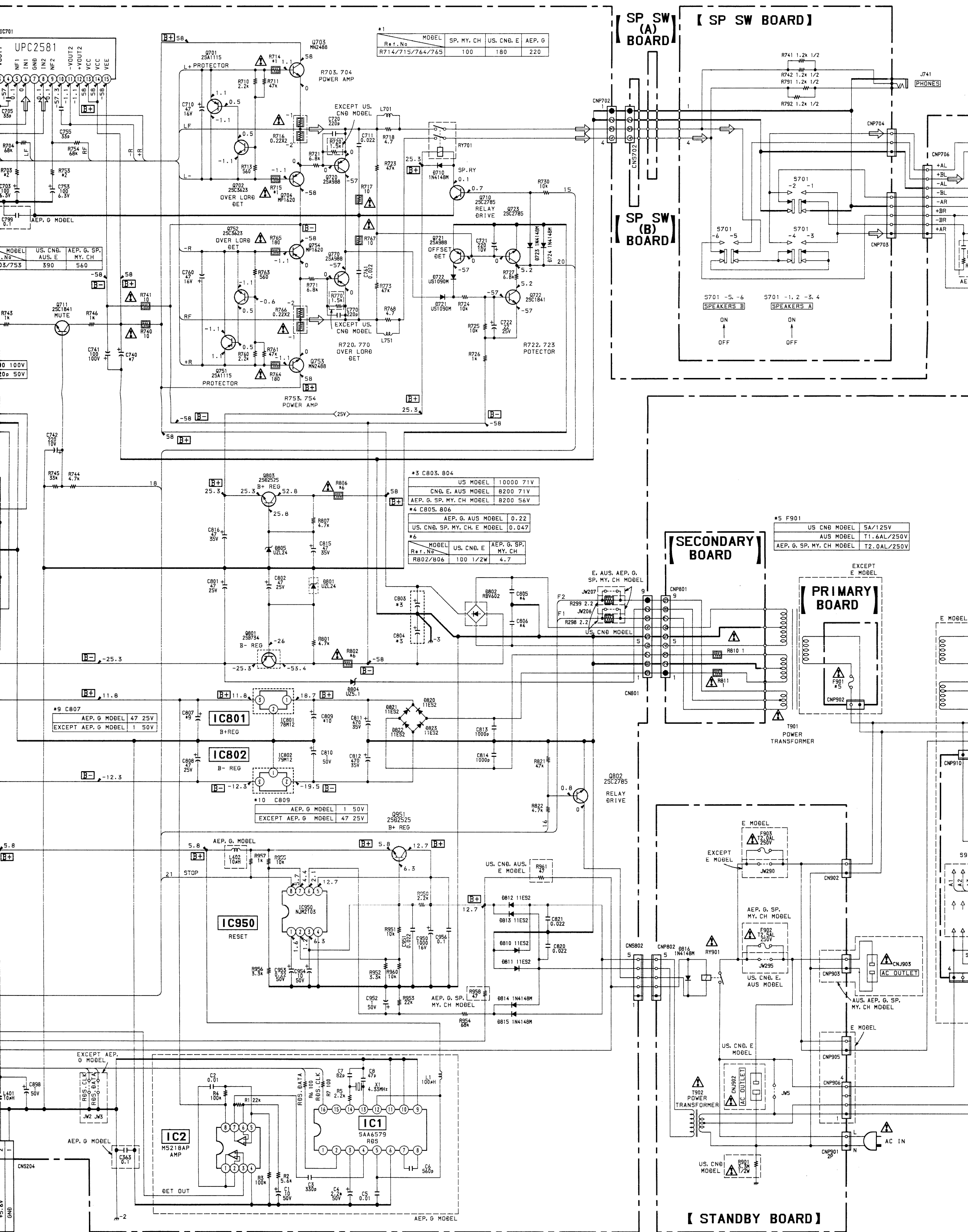
- : parts extracted from the component side.
- ▨ : Pattern on the side which is seen.
- Abbreviation
 - CND : Canadian
 - AUS : Australian
 - SP : Singapore
 - G : German
 - MY : Malaysia
 - CH : Chinese





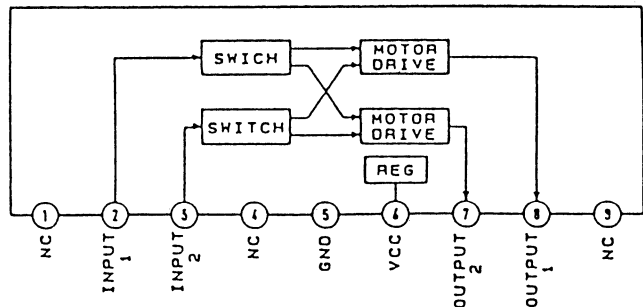
3-3. SCHEMATIC DIAGRAM (MAIN SECTION)



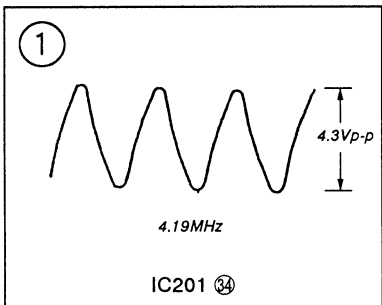


• IC BLOCK DIAGRAM – DISPLAY SECTION –

IC202 BA6208



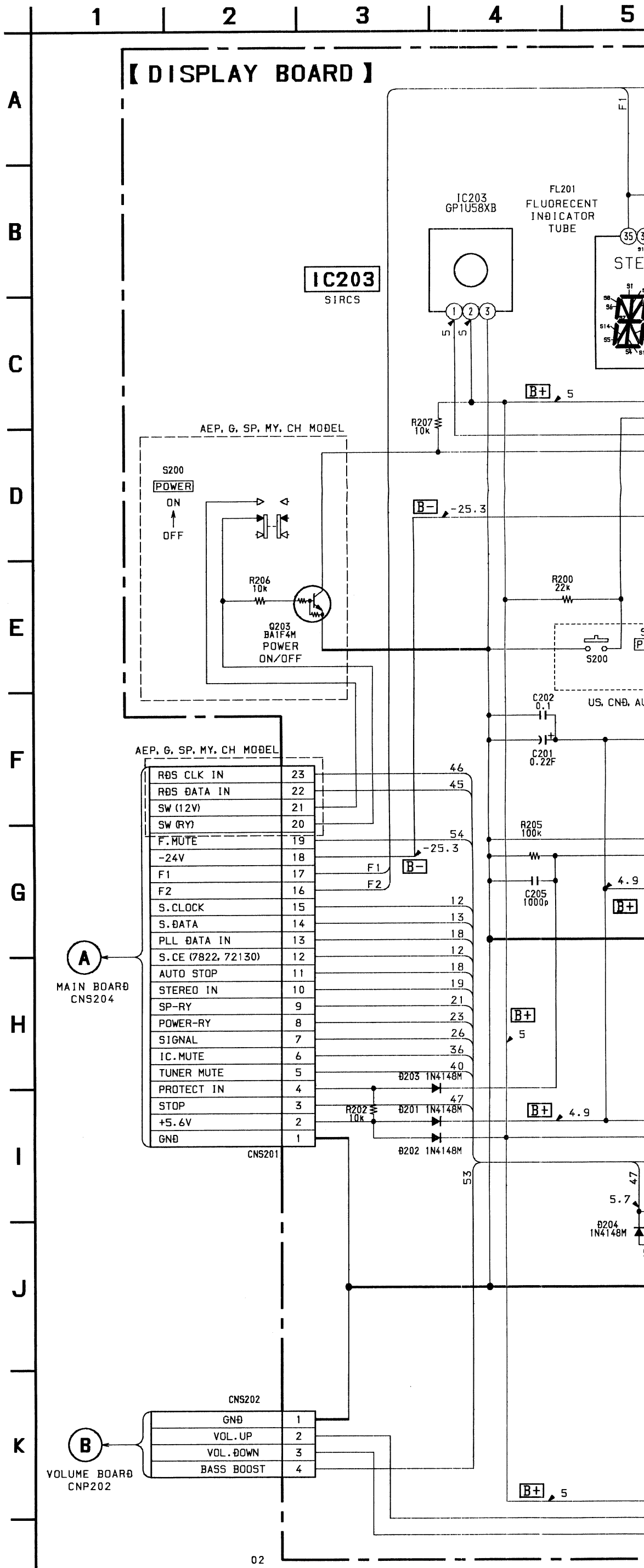
• WAVEFORM

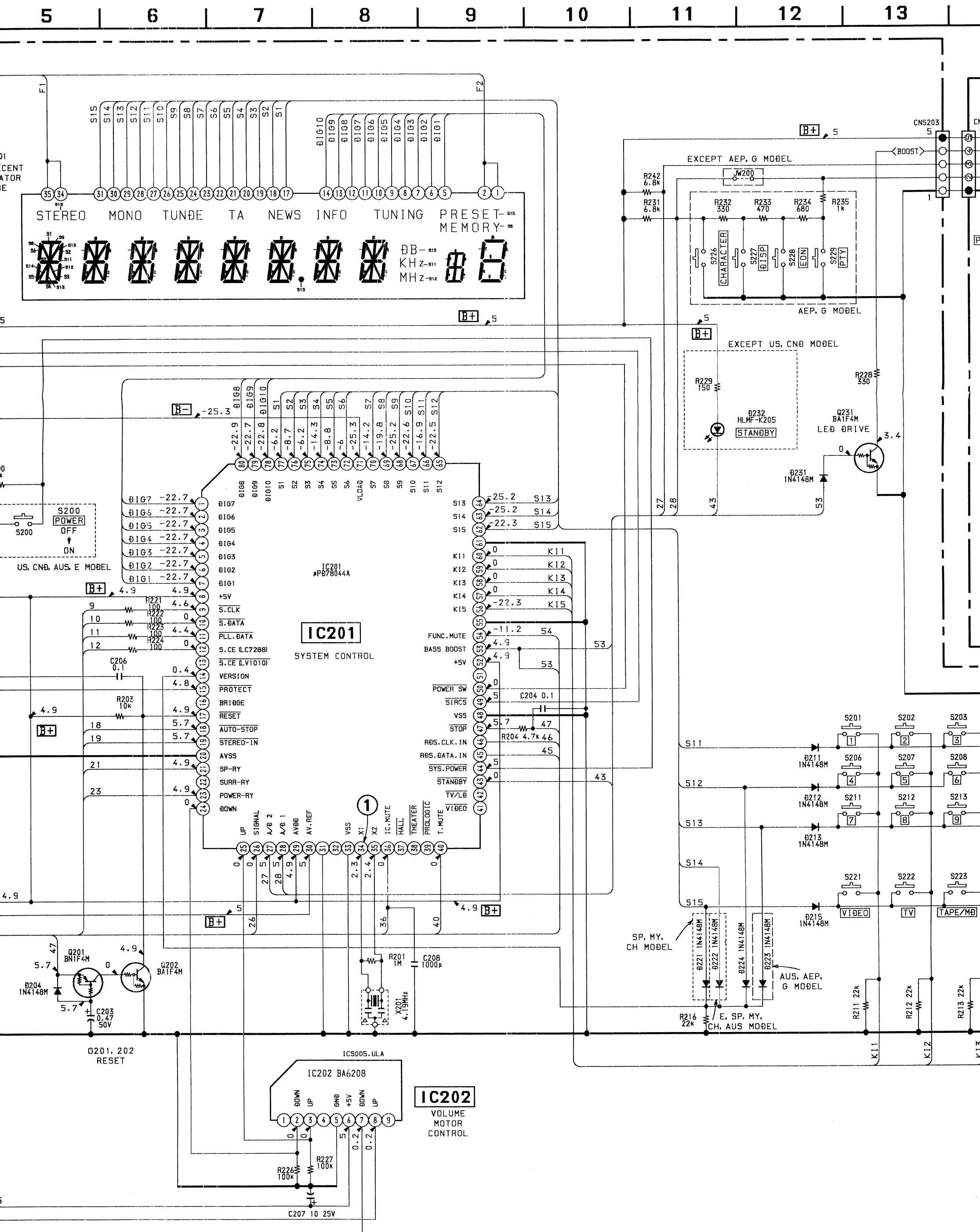


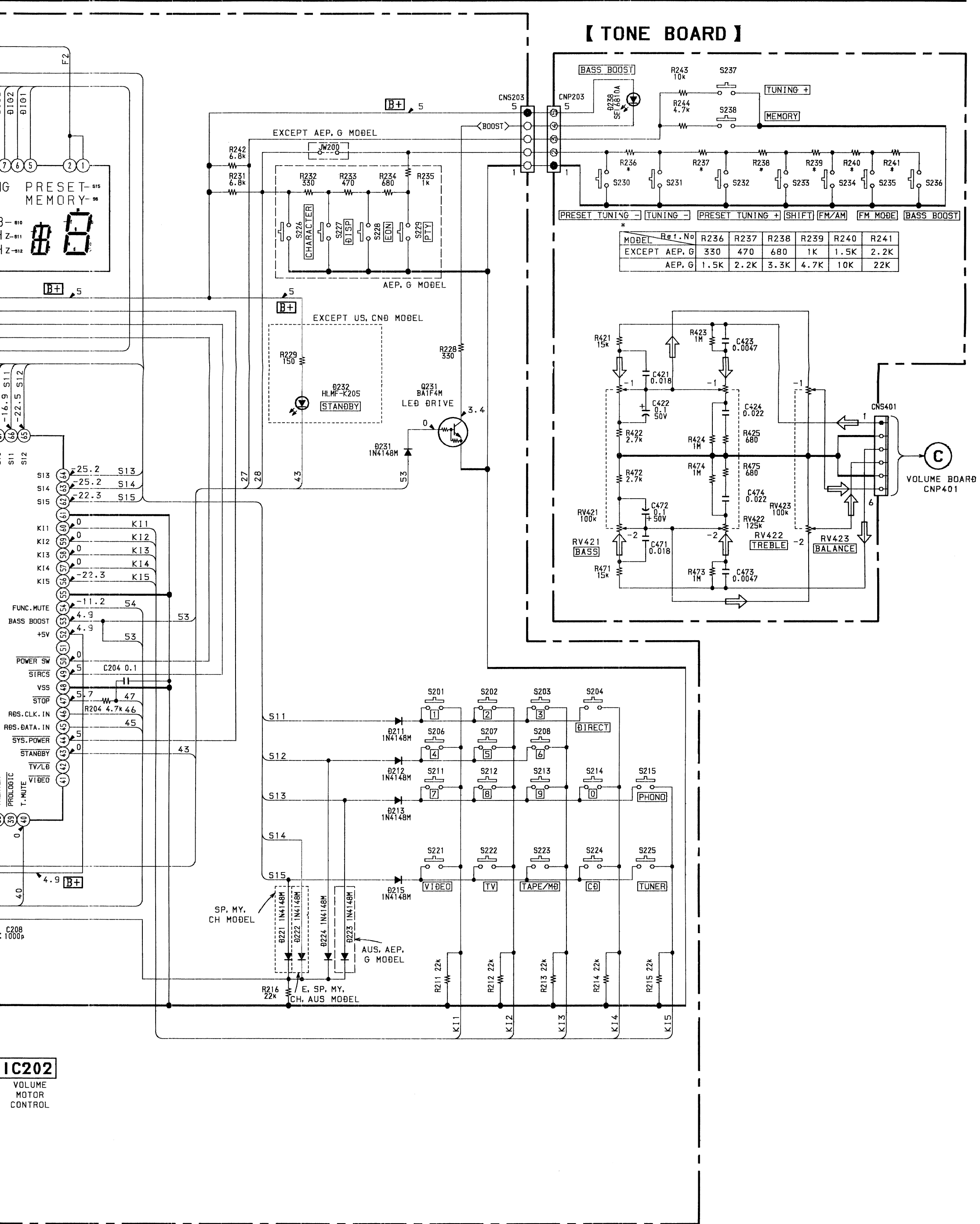
Note :

- All capacitors are in μF unless otherwise noted. pF : $\mu \mu F$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- Δ : internal component.
- **B+** : B+ Line
- **B-** : B - Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance $10M \Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
➡ : FM
- Abbreviation
CND : Canadian
AUS : Australian
SP : Singapore
G : German
MY : Malaysia
CH : Chinese

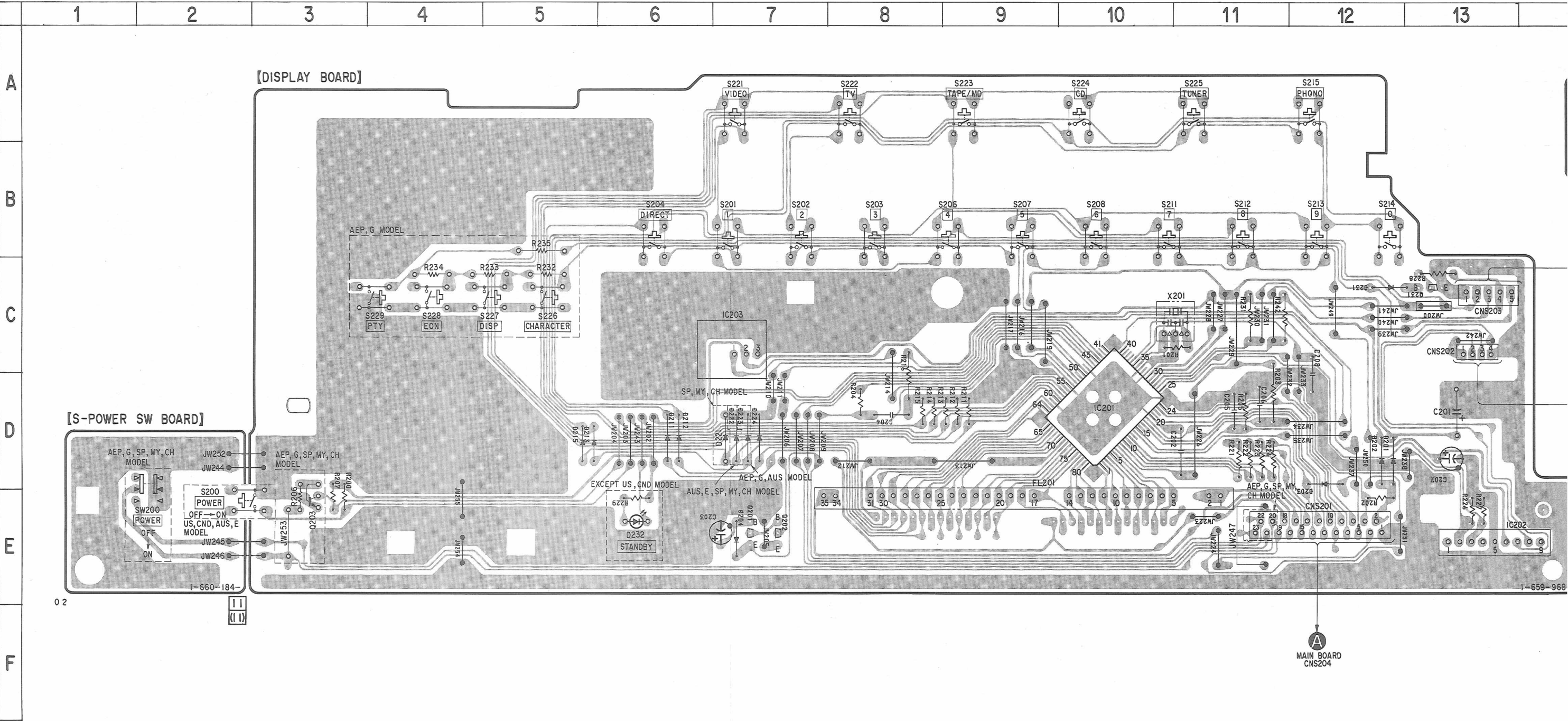
3-4. SCHEMATIC DIAGRAM (DISPLAY SECTION)







3-5. PRINTED WIRING BOARDS (DISPLAY SECTION)



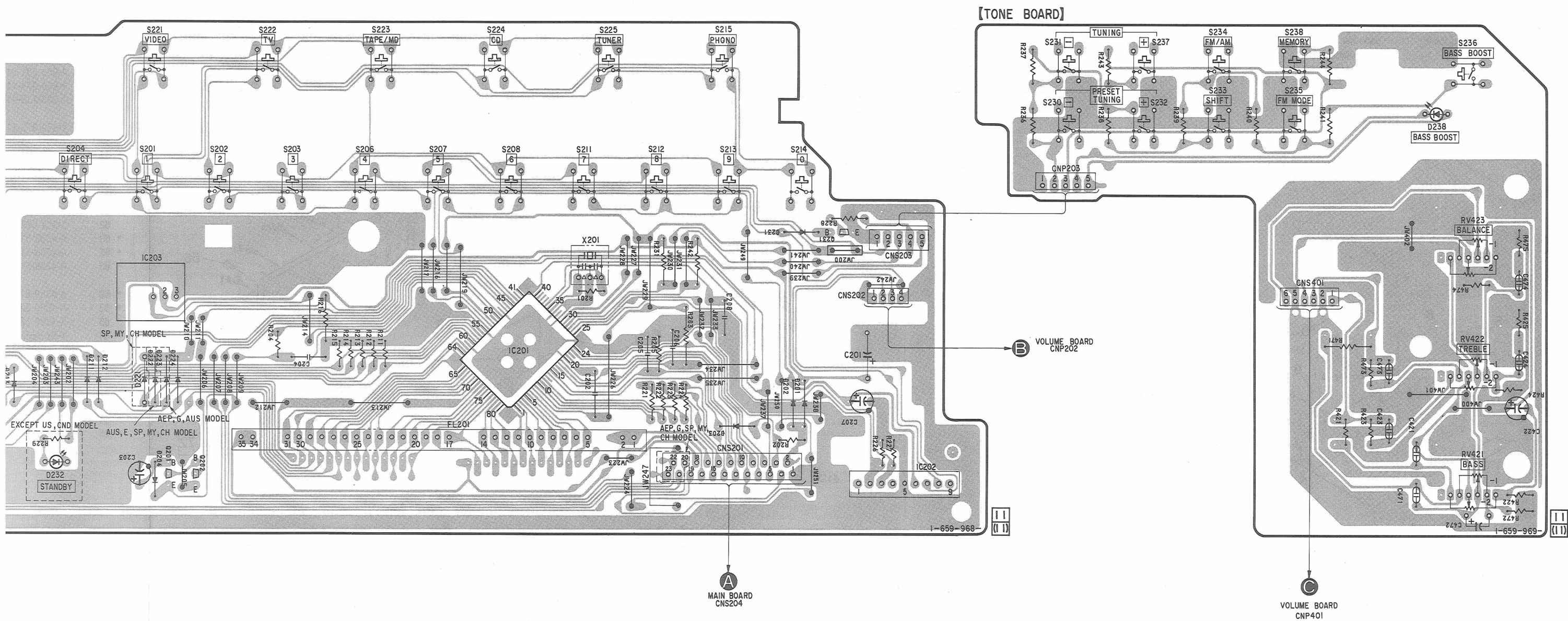
• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D201	D - 12	D223	D - 7	Q201	E - 7
D202	D - 12	D224	D - 7	Q202	E - 7
D203	D - 12	D231	C - 12	Q203	E - 3
D204	E - 7	D232	E - 6	Q231	C - 13
D211	D - 6	D238	B - 18		
D212	D - 6				
D213	D - 5	IC201	D - 10		
D215	D - 5	IC202	E - 13		
D221	D - 7	IC203	C - 7		
D222	D - 7				

Note:

- : parts extracted from the component side.
- ▤ : Pattern on the side which is seen.
- Abbreviation
 - CND : Canadian
 - AUS : Australian
 - SP : Singapore
 - G : German
 - MY : Malaysia
 - CH : Chinese

6	7	8	9	10	11	12	13	14	15	16	17	18	19
---	---	---	---	----	----	----	----	----	----	----	----	----	----



component side.
which is seen.

SECTION 4
EXPLODED VIEWS

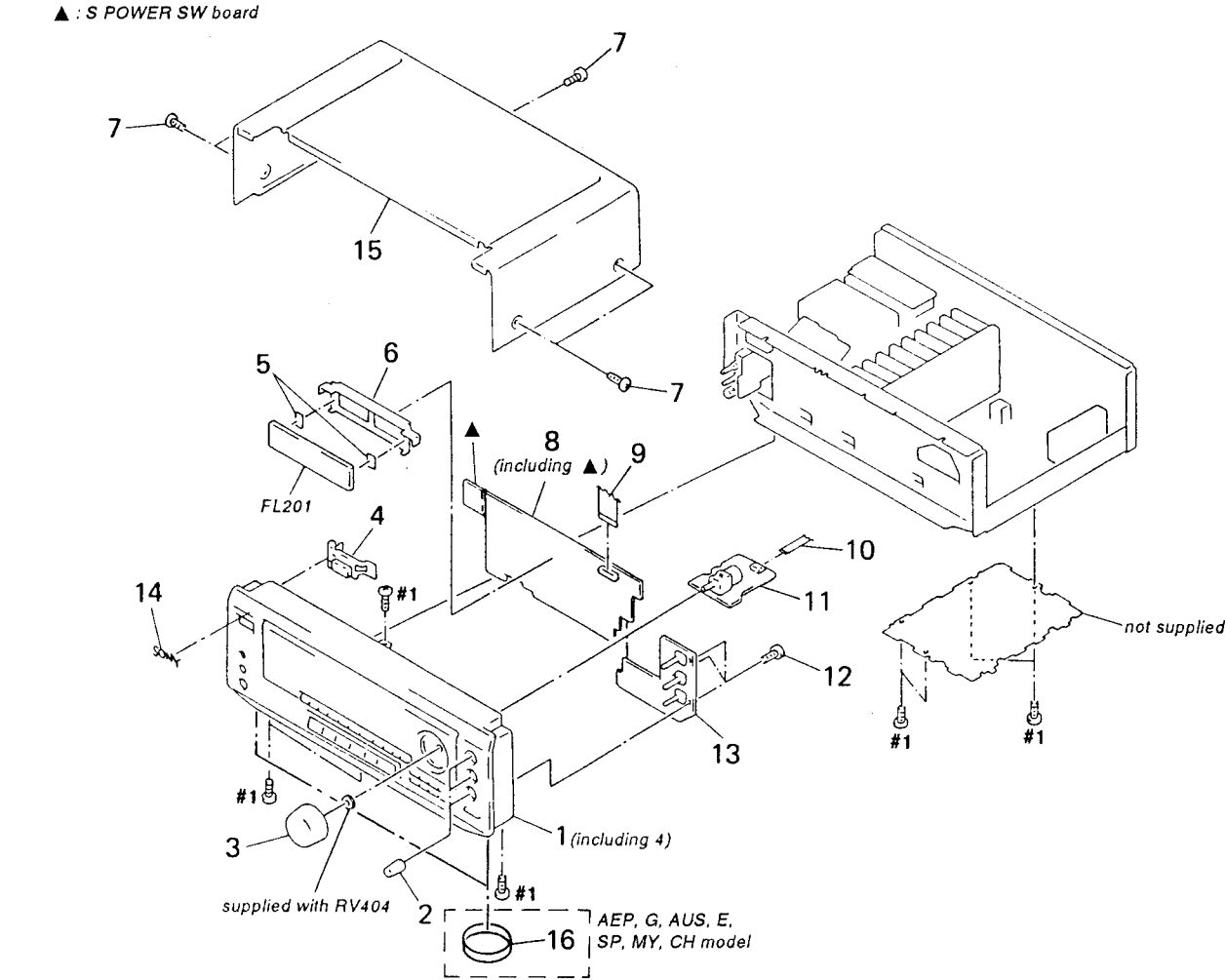
NOTE :
● -XX, -X mean standardized parts, so they may have some difference from the original one.
● Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# marked) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
G : German AUS : Australian
SP : Singapore MY : Malaysia
CH : Chieses

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

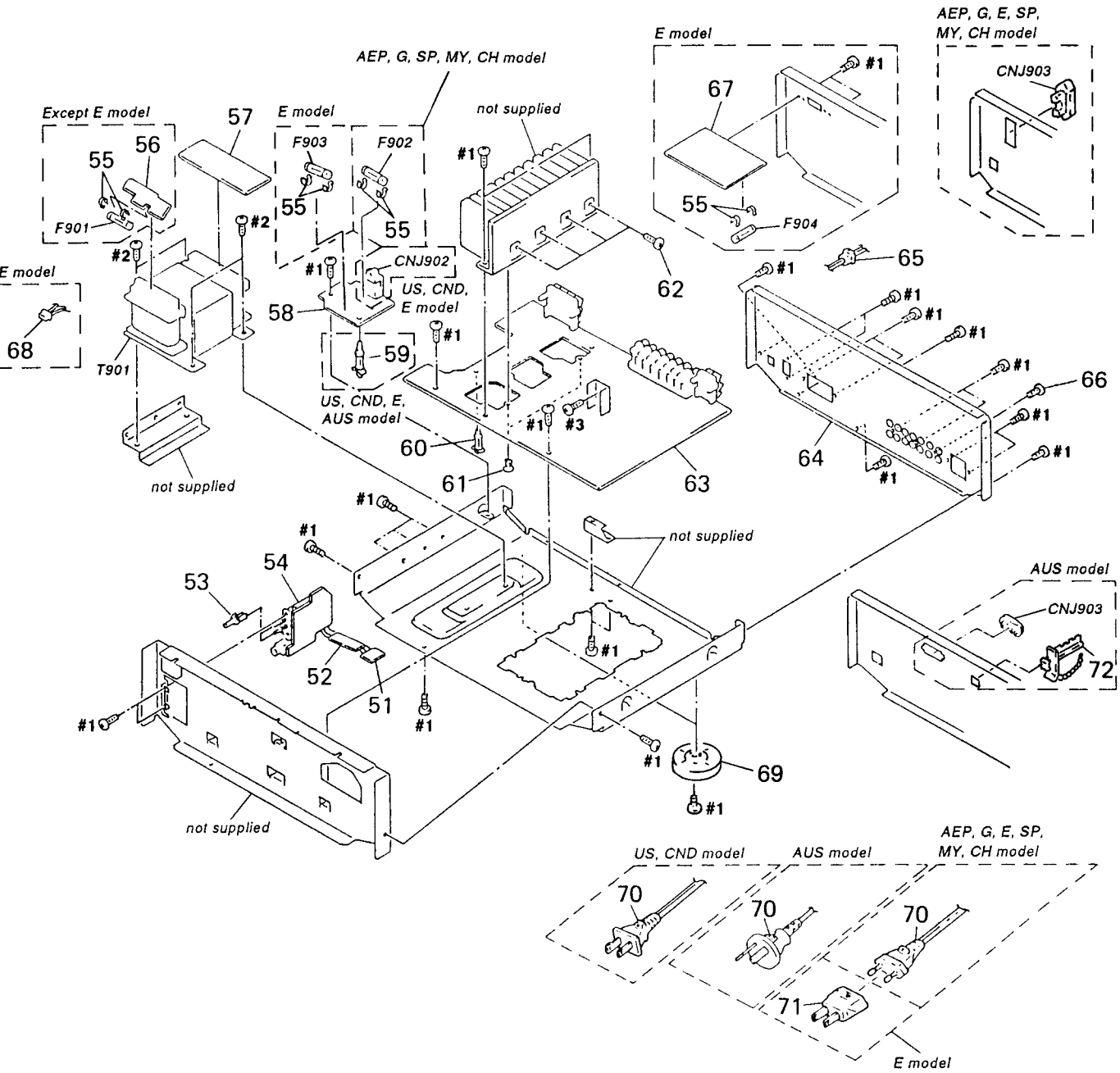
4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	X-4946-863-1	PANEL ASSY, FRONT (US,Canadian)	
1	X-4946-864-1	PANEL ASSY, FRONT (AUS,E)	
1	X-4946-865-1	PANEL ASSY, FRONT (AEP,G)	
1	X-4946-940-1	PANEL ASSY, FRONT (SP,MY,CH)	
2	4-980-639-01	KNOB (R14)	
3	X-4946-873-1	KNOB (R48) ASSY	
4	4-979-936-01	BUTTON (P-T) (US,Canadian,AUS,E)	
4	4-980-109-01	BUTTON (P-M) (AEP,G,SP,MY,CH)	
* 5	4-921-941-01	CUSHION (FL)	
* 6	4-943-107-11	HOLDER (FL TUBE)	
7	3-704-366-01	SCREW (CASE) (M3X8)	
* 8	A-4389-502-A	DISPLAY BOARD, COMPLETE (US,Canadian)	
* 8	A-4389-512-A	DISPLAY BOARD, COMPLETE (AUS)	
* 8	A-4389-515-A	DISPLAY BOARD, COMPLETE (E)	
* 8	A-4389-519-A	DISPLAY BOARD, COMPLETE (SP,MY,CH)	

Ref. No.	Part No.	Description	Remark
* 8	A-4389-523-A	DISPLAY BOARD, COMPLETE (AEP,G)	
9	1-765-343-11	WIRE (FLAT TYPE) (23 CORE) (AEP,G,SP,MY,CH)	
9	1-773-114-11	WIRE (FLAT TYPE) (19 CORE) (US,Canadian,AUS,E)	
10	1-769-941-11	WIRE (FLAT TYPE) (11 CORE)	
* 11	A-4389-504-A	VOLUME BOARD, COMPLETE	
12	4-951-620-01	SCREW (2.6X8), +BVTP	
* 13	A-4389-505-A	TONE BOARD, COMPLETE (EXCEPT AEP,G)	
* 13	A-4389-526-A	TONE BOARD, COMPLETE (AEP,G)	
14	4-963-404-21	EMBLEM (5-A), SONY	
* 15	4-980-658-01	CASE (413226)	
16	4-977-593-11	RING (DIA. 50), ORNAMENTAL (AEP,G,AU,E,SP,MY,CH)	
FL201	1-517-141-11	INDICATOR TUBE, FLUORESCENT	

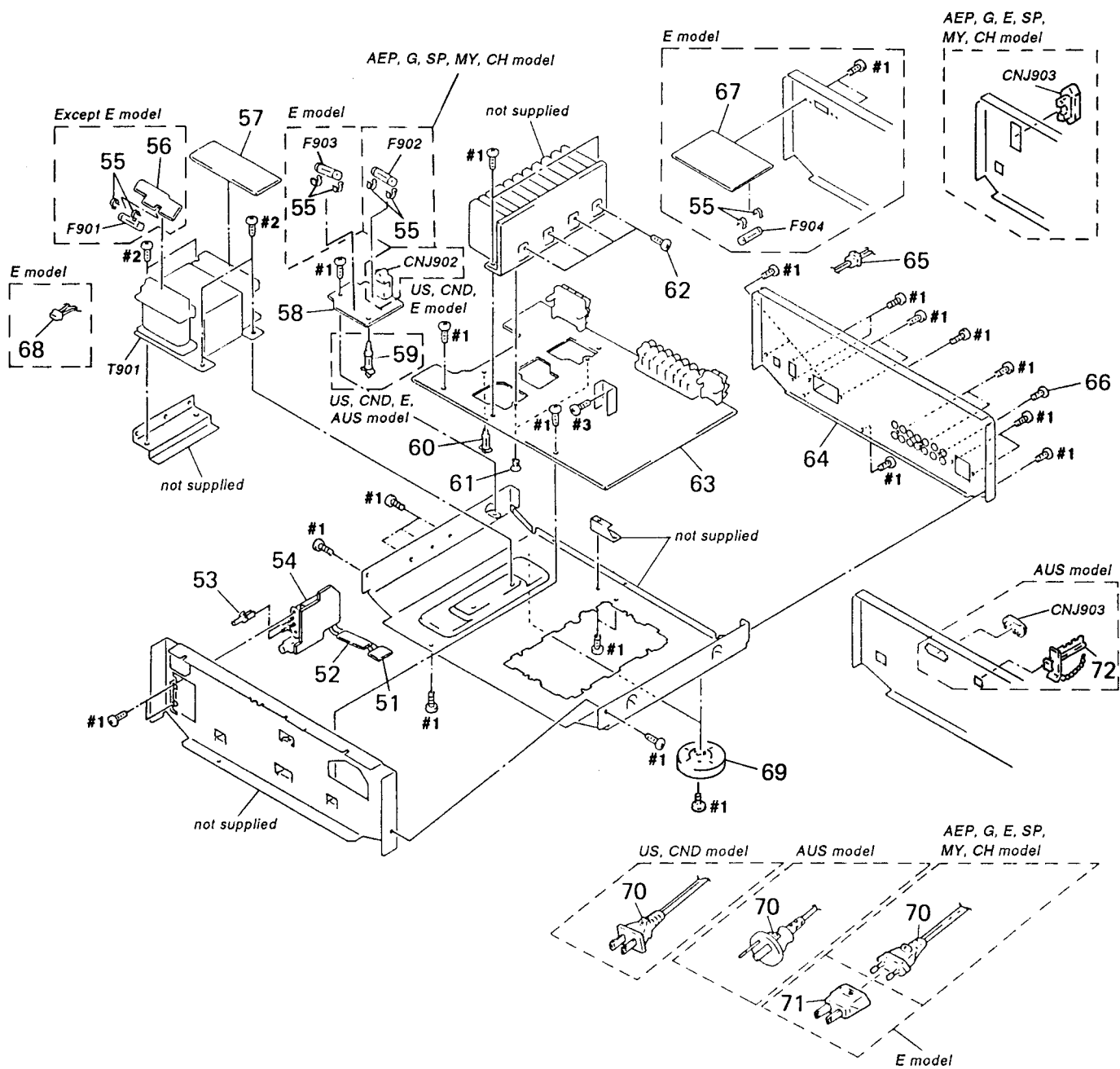
4-2. CHASSIS SECTION



Ref. No.	Part No.	Description
* 51	1-659-976-11	SCREW (2.6X8), +BVTP
* 52	1-659-975-11	SCREW (2.6X8), +BVTP
53	4-951-801-01	SCREW (2.6X8), +BVTP
* 54	1-659-974-11	SCREW (2.6X8), +BVTP
55	1-533-233-11	SCREW (2.6X8), +BVTP
* 56	1-659-972-11	SCREW (2.6X8), +BVTP
* 57	1-659-973-11	SCREW (2.6X8), +BVTP
* 58	1-659-970-11	SCREW (2.6X8), +BVTP
59	4-924-098-01	SCREW (2.6X8), +BVTP
* 60	4-924-098-21	SCREW (2.6X8), +BVTP
61	4-812-134-00	SCREW (2.6X8), +BVTP
62	3-905-609-01	SCREW (2.6X8), +BVTP
* 63	A-4389-510-A	SCREW (2.6X8), +BVTP
* 63	A-4389-511-A	SCREW (2.6X8), +BVTP
* 63	A-4389-514-A	SCREW (2.6X8), +BVTP
* 63	A-4389-518-A	SCREW (2.6X8), +BVTP
* 63	A-4389-522-A	SCREW (2.6X8), +BVTP
* 63	A-4389-531-A	SCREW (2.6X8), +BVTP
* 64	4-980-651-01	SCREW (2.6X8), +BVTP
* 64	4-980-651-11	SCREW (2.6X8), +BVTP
* 64	4-980-651-21	SCREW (2.6X8), +BVTP
* 64	4-980-651-31	SCREW (2.6X8), +BVTP
* 64	4-980-651-41	SCREW (2.6X8), +BVTP
* 64	4-980-651-51	SCREW (2.6X8), +BVTP
* 65	3-703-244-00	SCREW (2.6X8), +BVTP

4-2. CHASSIS SECTION

by mark Δ
are critical
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la sécurité.
une pièce



Ref. No.	Part No.	Description	Remark
* 51	1-659-976-11	SP SW (B) BOARD	
* 52	1-659-975-11	SP SW (A) BOARD	
53	4-951-801-01	BUTTON (S)	
* 54	1-659-974-11	SP SW BOARD	
55	1-533-233-11	HOLDER, FUSE	
* 56	1-659-972-11	PRIMARY BOARD (EXCEPT E)	
* 57	1-659-973-11	SECONDARY BOARD	
* 58	1-659-970-11	STANDBY BOARD	
59	4-924-098-01	HOLDER, PC BOARD (US,Canadian,AEP,G,AU,E)	
* 60	4-924-098-21	HOLDER, PC BOARD	
61	4-812-134-00	RIVET (DIA. 3.5), NYLON	
62	3-905-609-01	SCREW (TRANSISTOR)	
* 63	A-4389-510-A	MAIN BOARD, COMPLETE (US)	
* 63	A-4389-511-A	MAIN BOARD, COMPLETE (Canadian)	
* 63	A-4389-514-A	MAIN BOARD, COMPLETE (AUS)	
* 63	A-4389-518-A	MAIN BOARD, COMPLETE (E)	
* 63	A-4389-522-A	MAIN BOARD, COMPLETE (SP,MY,CH)	
* 63	A-4389-531-A	MAIN BOARD, COMPLETE (AEP,G)	
* 64	4-980-651-01	PANEL, BACK (US)	
* 64	4-980-651-11	PANEL, BACK (Canadian)	
* 64	4-980-651-21	PANEL, BACK (AEP,G)	
* 64	4-980-651-31	PANEL, BACK (E)	
* 64	4-980-651-41	PANEL, BACK (SP,MY,CH)	
* 64	4-980-651-51	PANEL, BACK (AUS)	
* 65	3-703-244-00	BUSHING (2104), CORD	

Ref. No.	Part No.	Description	Remark
66	4-909-982-11	SCREW, TAPPING	
* 67	1-659-978-11	VOLTAGE SELECTOR BOARD (E)	
68	1-769-746-61	LEAD (WITH CONNECTOR) (2 CORE) (E)	
69	X-4947-207-1	FOOT ASSY (F50150S) (AEP,G,AU,E,SP,MY,CH)	
69	X-4947-208-1	FOOT ASSY (F50150S) (US,Canadian)	
Δ 70	1-696-847-11	CORD, POWER (AUS)	
Δ 70	1-769-743-11	CORD, POWER (US,Canadian)	
Δ 70	1-769-744-11	CORD, POWER (AEP,G,E,SP,MY,CH)	
Δ 71	1-569-008-21	ADAPTOR, CONVERSION 2P (E)	
72	4-956-370-12	BAND, PLUG FIXED (AUS)	
Δ CNJ902	1-540-057-11	OUTLET, AC (POLAR) (US,Canadian,E)	
Δ CNJ903	1-251-416-11	OUTLET, A.C. (AUS)	
Δ CNJ903	1-526-794-11	OUTLET, AC (AEP,G,E,SP,MY,CH)	
Δ F901	1-532-388-51	FUSE FUSE, TIME LAG (T2AL/250V) (EXCEPT US,Canadian)	
Δ F901	1-576-109-11	FUSE (5A/250V) (US,Canadian)	
Δ F902	1-532-464-51	FUSE FUSE, TIME LAG (T2AL/250V) (AEP,G,SP,MY,CH)	
Δ F903	1-532-388-51	FUSE, TIME LAG (T2AL/250V) (E)	
Δ F904	1-532-388-51	FUSE, TIME LAG (T2AL/250V) (E)	
Δ T901	1-429-516-11	TRANSFORMER, POWER (US)	
Δ T901	1-429-517-11	TRANSFORMER, POWER (Canadian)	
Δ T901	1-429-518-11	TRANSFORMER, POWER (AUS)	
Δ T901	1-429-519-11	TRANSFORMER, POWER (E)	
Δ T901	1-429-520-11	TRANSFORMER, POWER (AEP,G,SP,MY,CH)	

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Remark
(SP,MY,CH)
adian,AUS,E)
(AEP,G)
(E,SP,MY,CH)

SECTION 5 ELECTRICAL PARTS LIST

DISPLAY

S POWER SW

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL : Metal-film resistor
METAL OXIDE :Metal oxide-film resistor
F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

● SEMICONDUCTORS

In each case, u : μ , for example :
uA..... : μ A..... , uPA..... : μ PA.....
uPB..... : μ PB..... , uPC..... : μ PC.....
uPD..... : μ PD.....

● CAPACITORS

uF : μ F

● COILS

uH : μ H

● Abbreviation

G : German AUS : Australian
SP : Singapore MY : Malaysia
CH : Chieses

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-4389-502-A	DISPLAY BOARD, COMPLETE (US,Canadian)		D211	8-719-987-63	DIODE 1N4148M (EXCEPT AEP,G)	
*	A-4389-512-A	DISPLAY BOARD, COMPLETE (AUS)		D212	8-719-815-85	DIODE 1S1585 (AEP,G)	
*	A-4389-515-A	DISPLAY BOARD, COMPLETE (E)		D212	8-719-987-63	DIODE 1N4148M (EXCEPT AEP,G)	
*	A-4389-519-A	DISPLAY BOARD, COMPLETE (SP,MY,CH)		D213	8-719-815-85	DIODE 1S1585 (AEP,G)	
*	A-4389-523-A	DISPLAY BOARD, COMPLETE (AEP,G)		D213	8-719-987-63	DIODE 1N4148M (EXCEPT AEP,G)	
		*****		D215	8-719-815-85	DIODE 1S1585 (AEP,G)	
		S POWER SW BOARD		D215	8-719-987-63	DIODE 1N4148M (EXCEPT AEP,G)	
		*****		D221	8-719-987-63	DIODE 1N4148M (SP,MY,CH)	
*	4-921-941-01	CUSHION (FL)		D222	8-719-987-63	DIODE 1N4148M (AUS,E,SP,MY,CH)	
*	4-943-107-11	HOLDER (FL TUBE)		D223	8-719-987-63	DIODE 1N4148M (AUSS)	
		< CAPACITOR >		D223	8-719-815-85	DIODE 1S1585 (AEP,G)	
	C201	1-104-905-11 CAPACITOR 0.22F	5.5V	D224	8-719-815-85	DIODE 1S1585 (AEP,G)	
	C202	1-164-159-11 CERAMIC 0.1uF	50V	D224	8-719-987-63	DIODE 1N4148M (EXCEPT AEP,G)	
	C203	1-124-465-00 ELECT 0.47uF	20% 50V	D231	8-719-815-85	DIODE 1S1585 (AEP,G)	
	C204	1-164-159-11 CERAMIC 0.1uF	50V	D231	8-719-987-63	DIODE 1N4148M (EXCEPT AEP,G)	
	C205	1-162-294-31 CERAMIC 0.001uF	10% 50V	D232	8-719-057-30	LED HLMP-K205-2UL (STANDBY)	(AUS,E,SP,MY,CH)
	C206	1-164-159-11 CERAMIC 0.1uF	50V				
	C207	1-126-096-11 ELECT 10uF	20% 35V	D232	8-719-313-48	LED SEL621 0S-TH12 (STANDBY) (AEP,G)	
	C208	1-162-294-31 CERAMIC 0.001uF	10% 50V			< INDICATOR TUBE >	
		< CONNECTOR >		FL201	1-517-141-11	INDICATOR TUBE, FLUORESCENT	
	CNS201	1-568-741-11 SOCKET, CONNECTOR 23P (AEP,G,SP,MY,CH)				< IC >	
	CNS201	1-569-308-11 SOCKET, CONNECTOR (L TYRE) 19P		IC201	8-759-426-91	IC uPD78044AGF-191-3B9 (AEP,G)	
		(US,Canadian,AUS,E)		IC201	8-759-385-78	IC uPD78044AGF-165-3B9 (EXCEPT AEP,G)	
	CNS202	1-770-397-11 HOUSING, CONNECTOR(PC BOARD)4P		IC202	8-759-962-08	IC BA6208	
*	CNS203	1-565-481-11 CONNECTOR, BOARD TO BOARD 5P		IC203	8-749-012-72	IC GP1U58X	
		< DIODE >				< TRANSISTOR >	
	D201	8-719-815-85 DIODE 1S1585 (AEP,G)		Q201	8-729-900-63	TRANSISTOR DTA124ES	
	D201	8-719-987-63 DIODE 1N4148M (EXCEPT AEP,G)		Q202	8-729-900-36	TRANSISTOR DTC124ES	
	D202	8-719-815-85 DIODE 1S1585 (AEP,G)		Q203	8-729-900-36	TRANSISTOR DTC124ES (AEP,G,SP,MY,CH)	
	D202	8-719-987-63 DIODE 1N4148M (EXCEPT AEP,G)		Q231	8-729-900-36	TRANSISTOR DTC124ES	
	D203	8-719-815-85 DIODE 1S1585 (AEP,G)				< RESISTOR >	
	D203	8-719-987-63 DIODE 1N4148M (EXCEPT AEP,G)		R200	1-249-433-11	CARBON 22K 5% 1/4W	
	D204	8-719-815-85 DIODE 1S1585 (AEP,G)					
	D204	8-719-987-63 DIODE 1N4148M (EXCEPT AEP,G)					
	D211	8-719-815-85 DIODE 1S1585 (AEP,G)					

DISPLAY	S POWER SW	MAIN
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Ref. No.	Part No.	Description	Remark		
R201	1-247-903-00	CARBON	1M	5%	1/4W
R202	1-249-429-11	CARBON	10K	5%	1/4W
R203	1-249-429-11	CARBON	10K	5%	1/4W
R204	1-249-425-11	CARBON	4.7K	5%	1/4W
R205	1-249-441-11	CARBON	100K	5%	1/4W
R206	1-249-429-11	CARBON	10K	5%	1/4W
(AEP,G,SP,MY,CH)					
R207	1-249-429-11	CARBON	10K	5%	1/4W
R211	1-249-433-11	CARBON	22K	5%	1/4W
R212	1-249-433-11	CARBON	22K	5%	1/4W
R213	1-249-433-11	CARBON	22K	5%	1/4W
R214	1-249-433-11	CARBON	22K	5%	1/4W
R215	1-249-433-11	CARBON	22K	5%	1/4W
R216	1-249-433-11	CARBON	22K	5%	1/4W
R221	1-247-807-31	CARBON	100	5%	1/4W
R222	1-247-807-31	CARBON	100	5%	1/4W
R223	1-247-807-31	CARBON	100	5%	1/4W
R224	1-247-807-31	CARBON	100	5%	1/4W
R226	1-249-441-11	CARBON	100K	5%	1/4W
R227	1-249-441-11	CARBON	100K	5%	1/4W
R228	1-249-411-11	CARBON	330	5%	1/4W
R229	1-249-407-11	CARBON	150	5%	1/4W
(EXCEPT US,Canadian)					
R231	1-249-427-11	CARBON	6.8K	5%	1/4W
R232	1-249-411-11	CARBON	330	5%	1/4W
(AEP,G)					
R233	1-249-413-11	CARBON	470	5%	1/4W
(AEP,G)					
R234	1-249-415-11	CARBON	680	5%	1/4W
(AEP,G)					
R235	1-249-417-11	CARBON	1K	5%	1/4W
(AEP,G)					
R242	1-249-427-11	CARBON	6.8K	5%	1/4W
R425	1-249-415-11	CARBON	680	5%	1/4W
< SWITCH >					
S200	1-554-303-21	SWITCH, TACTILE (POWER)	(US,Canadian,AUS,E)		
S201	1-554-303-21	SWITCH, TACTILE (1)			
S202	1-554-303-21	SWITCH, TACTILE (2)			
S203	1-554-303-21	SWITCH, TACTILE (3)			
S204	1-554-303-21	SWITCH, TACTILE (DIRECT)			
S206	1-554-303-21	SWITCH, TACTILE (4)			
S207	1-554-303-21	SWITCH, TACTILE (5)			
S208	1-554-303-21	SWITCH, TACTILE (6)			
S211	1-554-303-21	SWITCH, TACTILE (7)			
S212	1-554-303-21	SWITCH, TACTILE (8)			
S213	1-554-303-21	SWITCH, TACTILE (9)			
S214	1-554-303-21	SWITCH, TACTILE (0)			
S215	1-554-303-21	SWITCH, TACTILE (PHONO)			
S221	1-554-303-21	SWITCH, TACTILE (VIDEO)			
S222	1-554-303-21	SWITCH, TACTILE (TV)			
S223	1-554-303-21	SWITCH, TACTILE (TAPE/MD)			
S224	1-554-303-21	SWITCH, TACTILE (CD)			

Ref. No.	Part No.	Description	Remark		
S225	1-554-303-21	SWITCH, TACTILE (TUNER)			
S226	1-554-303-21	SWITCH, TACTILE (CHARACTER) (AEP,G)			
S227	1-554-303-21	SWITCH, TACTILE (DISP) (AEP,G)			
S228	1-554-303-21	SWITCH, TACTILE (EON) (AEP,G)			
S229	1-554-303-21	SWITCH, TACTILE (PTY) (AEP,G)			
SW200	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)	(AEP,G,SP,MY,CH)		
< VIBRATOR >					
X201	1-577-101-11	VIBRATOR, CERAMIC (4.19MHz)			

*	A-4389-510-A	MAIN BOARD, COMPLETE (US)			
*	A-4389-511-A	MAIN BOARD, COMPLETE (Canadian)			
*	A-4389-514-A	MAIN BOARD, COMPLETE (AUS)			
*	A-4389-518-A	MAIN BOARD, COMPLETE (E)			
*	A-4389-522-A	MAIN BOARD, COMPLETE (SP,MY,CH)			
*	A-4389-531-A	MAIN BOARD, COMPLETE (AEP,G)			

	3-905-609-01	SCREW (TRANSISTOR)			
	4-812-134-00	RIVET (DIA. 3.5), NYLON			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	(US,Canadian)		
	7-682-548-04	SCREW +BVTT 3X8 (S)			
< CAPACITOR >					
C1	1-126-964-11	ELECT	10uF	20%	50V (AEP,G)
C2	1-162-306-11	CERAMIC	0.01uF	30%	16V (AEP,G)
C3	1-162-288-31	CERAMIC	330PF	10%	50V (AEP,G)
C4	1-124-925-11	ELECT	2.2uF	20%	100V (AEP,G)
C5	1-162-306-11	CERAMIC	0.01uF	30%	16V (AEP,G)
C6	1-162-291-31	CERAMIC	560PF	10%	50V (AEP,G)
C7	1-102-527-11	CERAMIC	82PF	5%	50V (AEP,G)
C8	1-102-852-91	CERAMIC	47PF	5%	50V (AEP,G)
C353	1-164-159-11	CERAMIC	0.1uF		50V
C354	1-164-159-11	CERAMIC	0.1uF		50V
C363	1-164-159-21	CERAMIC	0.1uF		50V (AEP,G)
C401	1-162-286-21	CERAMIC	220PF	10%	50V (AEP,G)
C401	1-162-282-31	CERAMIC	100PF	10%	50V (EXCEPT AEP,G)
C402	1-126-962-11	ELECT	3.3uF	20%	50V
C403	1-126-966-11	ELECT	33uF	20%	16V
C404	1-162-286-21	CERAMIC	220PF	10%	50V (AEP,G)
C404	1-162-282-31	CERAMIC	100PF	10%	50V (EXCEPT AEP,G)

Ref. No.	Part No.	Description	Remark		
C405	1-137-459-11	FILM	0.0056uF	5%	100V
C406	1-164-159-11	CERAMIC	0.1uF		50V
C407	1-137-365-11	FILM	0.0015uF	5%	50V
C408	1-162-294-31	CERAMIC	0.001uF	10%	50V
C409	1-126-962-11	ELECT	3.3uF	20%	50V
C410	1-164-159-11	CERAMIC	0.1uF		50V
C412	1-162-291-31	CERAMIC	560PF	10%	50V
C413	1-164-159-11	CERAMIC	0.1uF		50V
C415	1-164-159-11	CERAMIC	0.1uF		50V
C416	1-164-159-11	CERAMIC	0.1uF		50V
C421	1-126-964-11	ELECT	10uF	20%	50V
C422	1-124-903-11	ELECT	1uF	20%	50V
C434	1-162-286-31	CERAMIC	220PF	10%	50V
C435	1-162-286-31	CERAMIC	220PF	10%	50V
C451	1-162-286-21	CERAMIC	220PF	10%	50V (AEP,G)
C451	1-162-282-31	CERAMIC	100PF	10%	50V (EXCEPT AEP,G)
C452	1-126-962-11	ELECT	3.3uF	20%	50V
C453	1-126-966-11	ELECT	33uF	20%	16V
C454	1-162-286-21	CERAMIC	220PF	10%	50V (AEP,G)
C454	1-162-282-31	CERAMIC	100PF	10%	50V (EXCEPT AEP,G)
C455	1-137-459-11	FILM	0.0056uF	5%	100V
C457	1-137-365-11	FILM	0.0015uF	5%	50V
C459	1-126-962-11	ELECT	3.3uF	20%	50V
C460	1-164-159-11	CERAMIC	0.1uF		50V
C471	1-126-964-11	ELECT	10uF	20%	50V
C472	1-124-903-11	ELECT	1uF	20%	50V
C701	1-126-963-11	ELECT	4.7uF	20%	50V
C702	1-102-973-00	CERAMIC	100PF	5%	50V
C703	1-126-933-11	ELECT	100uF	20%	10V
C705	1-102-233-00	CERAMIC	33PF	10%	500V
C710	1-126-967-11	ELECT	47uF	20%	16V
C711	1-137-372-11	FILM	0.022uF	5%	50V
C720	1-162-286-31	CERAMIC	220PF	10%	50V
C721	1-126-923-11	ELECT	220uF	20%	10V
C722	1-126-965-11	ELECT	22uF	20%	50V
C740	1-162-286-31	CERAMIC	220PF	10%	50V (AUS)
C740	1-128-563-11	ELECT	100uF	20%	100V (EXCEPT AUS)
C741	1-128-563-11	ELECT	100uF	20%	100V
C742	1-126-923-11	ELECT	220uF	20%	10V
C751	1-126-963-11	ELECT	4.7uF	20%	50V
C752	1-102-973-00	CERAMIC	100PF	5%	50V
C753	1-126-933-11	ELECT	100uF	20%	10V
C755	1-102-233-00	CERAMIC	33PF	10%	500V
C760	1-126-967-11	ELECT	47uF	20%	16V

Ref. No.	Part No.	Description	Remark		
C761	1-137-372-11	FILM	0.022uF	5%	50V
C770	1-162-286-31	CERAMIC	220PF	10%	50V
C799	1-164-159-21	CERAMIC	0.1uF		50V (AEP,G)
C801	1-104-664-11	ELECT	47uF	20%	25V
C802	1-104-664-11	ELECT	47uF	20%	25V
C803	1-107-766-12	ELECT	8200uF	20%	71V (Canadian,AUS,E)
C803	1-125-474-12	ELECT(BLOCK)	8200uF	20%	56V (AEP,G,SP,MY,CH)
C803	1-109-932-11	ELECT	10000uF	20%	71V (US)
C804	1-107-766-12	ELECT	8200uF	20%	71V (Canadian,AUS,E)
C804	1-125-474-12	ELECT(BLOCK)	8200uF	20%	56V (AEP,G,SP,MY,CH)
C804	1-109-932-11	ELECT	10000uF	20%	71V (US)
C805	1-130-781-00	FILM	0.22uF	10%	100V (AEP,G,AUS)
C805	1-137-420-11	FILM	0.047uF	10%	100V (US,Canadian,E,SP,MY,CH)
C806	1-130-781-00	FILM	0.22uF	10%	100V (AEP,G,AUS)
C806	1-137-420-11	FILM	0.047uF	10%	100V (US,Canadian,E,SP,MY,CH)
C807	1-104-664-11	ELECT	47uF	20%	25V (AEP,G)
C807	1-124-903-11	ELECT	1uF	20%	50V (EXCEPT AEP,G)
C808	1-104-664-11	ELECT	47uF	20%	25V
C809	1-124-903-11	ELECT	1uF	20%	50V (AEP,G)
C809	1-104-664-11	ELECT	47uF	20%	25V (EXCEPT AEP,G)
C810	1-124-903-11	ELECT	1uF	20%	50V
C811	1-126-951-11	ELECT	470uF	20%	35V
C812	1-126-951-11	ELECT	470uF	20%	35V
C813	1-164-088-11	CERAMIC	0.001uF		50V
C814	1-164-088-11	CERAMIC	0.001uF		50V
C815	1-126-947-11	ELECT	47uF	20%	35V
C816	1-126-947-11	ELECT	47uF	20%	35V
C820	1-161-494-00	CERAMIC	0.022uF		25V
C821	1-161-494-00	CERAMIC	0.022uF		25V
C898	1-124-903-11	ELECT	1uF	20%	50V
C950	1-126-952-11	ELECT	1000uF	20%	16V
C951	1-164-097-11	CERAMIC	0.022uF		50V
C952	1-124-903-11	ELECT	1uF	20%	50V
C953	1-124-464-11	ELECT	0.22uF	20%	50V
C954	1-126-964-11	ELECT	10uF	20%	50V
C956	1-164-159-11	CERAMIC	0.1uF		50V

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
CC01	1-162-282-31	CERAMIC	100PF 10% 50V (AEP,G)	D724	8-719-815-85	DIODE 1S1585 (AEP,G)	
CC02	1-162-282-31	CERAMIC	100PF 10% 50V (AEP,G)	D724	8-719-987-63	DIODE 1N4148M (EXCEPT AEP,G)	
CC03	1-162-282-31	CERAMIC	100PF 10% 50V (AEP,G)	D801	8-719-002-33	DIODE UZL-24L	
CC04	1-162-282-31	CERAMIC	100PF 10% 50V (AEP,G)	D802	8-719-302-38	DIODE RBV-602-01	
CC05	1-162-282-31	CERAMIC	100PF 10% 50V (AEP,G)	D804	8-719-010-38	DIODE UZ-5.1BSB	
CC06	1-162-282-31	CERAMIC	100PF 10% 50V (AEP,G)	D805	8-719-002-33	DIODE UZL-24L	
CC07	1-162-282-31	CERAMIC	100PF 10% 50V (AEP,G)	D810	8-719-200-82	DIODE 11ES2	
CC12	1-164-096-11	CERAMIC	0.01uF 50V (AEP,G)	D811	8-719-200-82	DIODE 11ES2	
CC13	1-164-096-11	CERAMIC	0.01uF 50V (AEP,G)	D812	8-719-200-82	DIODE 11ES2	
CC51	1-162-282-31	CERAMIC	100PF 10% 50V (AEP,G)	D813	8-719-200-82	DIODE 11ES2	
CC52	1-162-282-31	CERAMIC	100PF 10% 50V (AEP,G)	D814	8-719-815-85	DIODE 1S1585 (AEP,G)	
CC53	1-162-282-31	CERAMIC	100PF 10% 50V (AEP,G)	D814	8-719-987-63	DIODE 1N4148M (EXCEPT AEP,G)	
CC54	1-162-282-31	CERAMIC	100PF 10% 50V (AEP,G)	D815	8-719-815-85	DIODE 1S1585 (AEP,G)	
CC55	1-162-282-31	CERAMIC	100PF 10% 50V (AEP,G)	D815	8-719-987-63	DIODE 1N4148M (EXCEPT AEP,G)	
CC56	1-162-282-31	CERAMIC	100PF 10% 50V (AEP,G)	D820	8-719-200-82	DIODE 11ES2	
CC57	1-162-282-31	CERAMIC	100PF 10% 50V (AEP,G)	D821	8-719-200-82	DIODE 11ES2	
CC62	1-164-096-11	CERAMIC	0.01uF 50V (AEP,G)	D822	8-719-200-82	DIODE 11ES2	
CC63	1-164-096-11	CERAMIC	0.01uF 50V (AEP,G)	D823	8-719-200-82	DIODE 11ES2	
< CONNECTOR >				< EARTH TERMINAL >			
CNP404	1-569-060-11	SOCKET, CONNECTOR 11P		* G200	1-537-738-21	TERMINAL, EARTH	
CNP404	1-695-094-11	SOCKET, CONNECTOR 11P (EXCEPT AEP,G)		* G201	1-537-738-21	TERMINAL, EARTH	
CNP702	1-770-481-11	PIN, CONNECTOR 4P		* G202	1-537-738-21	TERMINAL, EARTH	
CNP706	1-764-477-11	PIN, CONNECTOR (PC BOARD) 8P		< IC >			
CNS204	1-568-742-11	SOCKET, CONNECTOR 23P (AEP,G,SP,MY,CH)		IC1	8-759-169-99	IC SAA6579 (AEP,G)	
CNS204	1-569-323-11	SOCKET, CONNECTOR 19P (US,Canadian,AUS,E)		IC2	8-759-636-74	IC M5218AP-22 (AEP,G)	
CNS802	1-766-200-11	SOCKET, CONNECTOR PIN 5P		IC401	8-759-805-14	IC LC7822	
< DIODE >				IC402	8-759-636-74	IC M5218AP-22	
D710	8-719-815-85	DIODE 1S1585 (AEP,G)		IC403	8-759-636-74	IC M5218AP-22	
D710	8-719-987-63	DIODE 1N4148M (EXCEPT AEP,G)		IC701	8-759-326-52	IC uPC2581V	
D721	8-719-815-85	DIODE 1S1585		IC801	8-759-391-87	IC BA78M12P (AEP,G)	
D722	8-719-815-85	DIODE 1S1585		IC801	8-759-287-58	IC TA78M12P (EXCEPT AEP,G)	
D723	8-719-815-85	DIODE 1S1585 (AEP,G)		IC802	8-759-700-69	IC NJM79L12A	
D723	8-719-987-63	DIODE 1N4148M (EXCEPT AEP,G)		IC950	8-759-333-83	IC NJM2103D	
< JACK >				< COIL >			
J401	1-695-188-31	JACK, PIN 4P (PHONO/CD)		L1	1-410-521-11	INDUCTOR 100uH (AEP,G)	
J402	1-770-015-11	JACK, PIN 6P (TAPE/MD)		L401	1-410-509-11	INDUCTOR 10uH	
J403	1-695-188-31	JACK, PIN 4P (AEP,G)		L402	1-410-509-11	INDUCTOR 10uH (AEP,G)	
J403	1-573-028-31	JACK, PIN 4P (TV/VIDEO) (EXCEPT AEP,G)		L701	1-420-872-00	COIL, AIR-CORE	
< TRANSISTOR >				L751	1-420-872-00	COIL, AIR-CORE	
Q303	8-729-922-37	TRANSISTOR 2SD2144S		< TRANSISTOR >			
Q304	8-729-922-37	TRANSISTOR 2SD2144S		Q303	8-729-922-37	TRANSISTOR 2SD2144S	
Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q304	8-729-922-37	TRANSISTOR 2SD2144S	
				Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE	

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description				Remark
Q702	8-729-141-30	TRANSISTOR 2SC3623A-LK					R412	1-247-897-11	CARBON	560K	5%	1/4W	
Q703	8-749-010-25	IC MN2488-OPY-M											
Q704	8-749-010-26	IC MP1620-OPY-M					R413	1-249-437-11	CARBON	47K	5%	1/4W	
Q710	8-729-119-78	TRANSISTOR 2SC2785-HFE					R414	1-249-425-11	CARBON	4.7K	5%	1/4W	
Q711	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA					R416	1-249-417-11	CARBON	1K	5%	1/4W	
Q720	8-729-140-82	TRANSISTOR 2SA988-PAFAEA					R417	1-247-897-11	CARBON	560K	5%	1/4W	
Q721	8-729-140-82	TRANSISTOR 2SA988-PAFAEA					R418	1-249-417-11	CARBON	1K	5%	1/4W	
Q722	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA					R419	1-249-417-11	CARBON	1K	5%	1/4W	
Q723	8-729-119-78	TRANSISTOR 2SC2785-HFE					R420	1-249-441-11	CARBON	100K	5%	1/4W	
Q751	8-729-119-76	TRANSISTOR 2SA1175-HFE					R421	1-249-417-11	CARBON	1K	5%	1/4W	
Q752	8-729-141-30	TRANSISTOR 2SC3623A-LK					R435	1-249-418-11	CARBON	1.2K	5%	1/4W	
Q753	8-749-010-25	IC MN2488-OPY-M					R442	1-249-418-11	CARBON	1.2K	5%	1/4W	
Q754	8-749-010-26	IC MP1620-OPY-M					R443	1-249-418-11	CARBON	1.2K	5%	1/4W	
Q770	8-729-140-82	TRANSISTOR 2SA988-PAFAEA					R447	1-249-416-11	CARBON	820	5%	1/4W	
Q801	8-729-140-97	TRANSISTOR 2SB734-34					R448	1-249-429-11	CARBON	10K	5%	1/4W	
Q802	8-729-119-78	TRANSISTOR 2SC2785-HFE					R449	1-249-433-11	CARBON	22K	5%	1/4W	
Q803	8-729-030-18	TRANSISTOR 2SD2525					R451	1-249-411-11	CARBON	330	5%	1/4W	
Q951	8-729-030-18	TRANSISTOR 2SD2525					R452	1-249-421-11	CARBON	2.2K	5%	1/4W	
		< RESISTOR >					R453	1-249-417-11	CARBON	1K	5%	1/4W	
							R454	1-249-417-11	CARBON	1K	5%	1/4W	
R1	1-249-433-11	CARBON	22K	5%	1/4W	(AEP,G)	R455	1-249-417-11	CARBON	1K	5%	1/4W	
							R456	1-249-417-11	CARBON	1K	5%	1/4W	
R2	1-249-426-11	CARBON	5.6K	5%	1/4W	(AEP,G)	R457	1-249-417-11	CARBON	1K	5%	1/4W	
							R458	1-249-429-11	CARBON	10K	5%	1/4W	
R3	1-249-441-11	CARBON	100K	5%	1/4W	(AEP,G)	R459	1-249-437-11	CARBON	47K	5%	1/4W	
							R460	1-247-897-11	CARBON	560K	5%	1/4W	
R4	1-249-441-11	CARBON	100K	5%	1/4W	(AEP,G)	R461	1-249-416-11	CARBON	820	5%	1/4W	
R5	1-249-421-11	CARBON	2.2K	5%	1/4W	(AEP,G)	R462	1-247-897-11	CARBON	560K	5%	1/4W	
							R463	1-249-437-11	CARBON	47K	5%	1/4W	
							R466	1-249-417-11	CARBON	1K	5%	1/4W	
							R467	1-247-897-11	CARBON	560K	5%	1/4W	
R6	1-249-405-11	CARBON	100	5%	1/4W	(AEP,G)	R470	1-249-441-11	CARBON	100K	5%	1/4W	
R7	1-249-405-11	CARBON	100	5%	1/4W	(AEP,G)	R471	1-249-417-11	CARBON	1K	5%	1/4W	
							R701	1-249-417-11	CARBON	1K	5%	1/4W	
R298	1-249-385-11	CARBON	2.2	5%	1/6W	(US,Canadian)	R702	1-249-439-11	CARBON	68K	5%	1/4W	
							R703	1-249-414-11	CARBON	560	5%	1/4W	
R299	1-249-385-11	CARBON	2.2	5%	1/6W	(US,Canadian)							
							R703	1-249-412-11	CARBON	390	5%	1/4W	(US,Canadian,AUS,E)
R304	1-249-441-11	CARBON	100K	5%	1/4W								
R352	1-249-441-11	CARBON	100K	5%	1/4W		R704	1-249-439-11	CARBON	68K	5%	1/4W	
R353	1-249-425-11	CARBON	4.7K	5%	1/4W		R710	1-249-421-11	CARBON	2.2K	5%	1/4W	
R354	1-249-425-11	CARBON	4.7K	5%	1/4W		R711	1-249-437-11	CARBON	47K	5%	1/4W	
R401	1-249-411-11	CARBON	330	5%	1/4W		R713	1-249-414-11	CARBON	560	5%	1/4W	
R402	1-249-421-11	CARBON	2.2K	5%	1/4W		△ R714	1-249-405-11	CARBON	100	5%	1/4W F	(SP,MY,CH)
R403	1-249-417-11	CARBON	1K	5%	1/4W								
R404	1-249-417-11	CARBON	1K	5%	1/4W		△ R714	1-249-409-11	CARBON	220	5%	1/4W F	(AEP,G)
R405	1-249-417-11	CARBON	1K	5%	1/4W								
R406	1-249-417-11	CARBON	1K	5%	1/4W		△ R714	1-249-408-11	CARBON	180	5%	1/4W F	(US,Canadian,E)
R407	1-249-417-11	CARBON	1K	5%	1/4W								
							△ R715	1-249-405-11	CARBON	100	5%	1/4W F	(SP,MY,CH)
R408	1-249-429-11	CARBON	10K	5%	1/4W								
R409	1-249-437-11	CARBON	47K	5%	1/4W		△ R715	1-249-409-11	CARBON	220	5%	1/4W F	(AEP,G)
R410	1-247-897-11	CARBON	560K	5%	1/4W								
R411	1-249-416-11	CARBON	820	5%	1/4W								

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MAIN

Ref. No.	Part No.	Description	Remark
△ R715	1-249-408-11	CARBON 180	5% 1/4W F (US,Canadian,E)
△ R716	1-233-594-21	ENCAPSULATED COMPONENT (SP,MY,CH)	
△ R716	1-233-594-11	ENCAPSULATED COMPONENT (AUS)	
△ R716	1-233-352-21	ENCAPSULATED COMPONENT (US,Canadian,AEP,G,E)	
△ R717	1-249-393-11	CARBON 10	5% 1/4W F
R718	1-249-389-11	CARBON 4.7	5% 1/4W
R720	1-249-419-11	CARBON 1.5K	5% 1/4W
R721	1-249-427-11	CARBON 6.8K	5% 1/4W
R723	1-249-437-11	CARBON 47K	5% 1/4W
R724	1-249-429-11	CARBON 10K	5% 1/4W
R725	1-249-429-11	CARBON 10K	5% 1/4W
R726	1-249-417-11	CARBON 1K	5% 1/4W
R727	1-249-427-11	CARBON 6.8K	5% 1/4W
R730	1-249-429-11	CARBON 10K	5% 1/4W
△ R740	1-249-393-11	CARBON 10	5% 1/4W F
△ R741	1-249-393-11	CARBON 10	5% 1/4W F
R743	1-249-417-11	CARBON 1K	5% 1/4W
R744	1-249-425-11	CARBON 4.7K	5% 1/4W
R745	1-249-435-11	CARBON 33K	5% 1/4W
R746	1-249-417-11	CARBON 1K	5% 1/4W
R751	1-249-417-11	CARBON 1K	5% 1/4W
R752	1-249-439-11	CARBON 68K	5% 1/4W
R753	1-249-414-11	CARBON 560	5% 1/4W (AEP,G,SP,MY,CH)
R753	1-249-412-11	CARBON 390	5% 1/4W (US,Canadian,AUS,E)
R754	1-249-439-11	CARBON 68K	5% 1/4W
R760	1-249-421-11	CARBON 2.2K	5% 1/4W
R761	1-249-437-11	CARBON 47K	5% 1/4W
R763	1-249-414-11	CARBON 560	5% 1/4W
R764	1-249-405-11	CARBON 100	5% 1/4W (SP,MY,CH)
R764	1-249-409-11	CARBON 220	5% 1/4W (AEP,G)
△ R764	1-249-408-11	CARBON 180	5% 1/4W F (US,Canadian,E)
△ R765	1-249-405-11	CARBON 100	5% 1/4W F (SP,MY,CH)
△ R765	1-249-409-11	CARBON 220	5% 1/4W F (AEP,G)
△ R765	1-249-408-11	CARBON 180	5% 1/4W F (US,Canadian,E)
△ R766	1-233-594-21	ENCAPSULATED COMPONENT (SP,MY,CH)	
△ R766	1-233-594-11	ENCAPSULATED COMPONENT (AUS)	
△ R766	1-233-352-21	ENCAPSULATED COMPONENT (US,Canadian,AEP,G,E)	
△ R767	1-249-393-11	CARBON 10	5% 1/4W F
R768	1-249-389-11	CARBON 4.7	5% 1/4W
R770	1-249-419-11	CARBON 1.5K	5% 1/4W
R771	1-249-427-11	CARBON 6.8K	5% 1/4W

Ref. No.	Part No.	Description	Remark
R773	1-249-437-11	CARBON 47K	5% 1/4W
R801	1-249-425-11	CARBON 4.7K	5% 1/4W
R802	1-249-389-11	CARBON 4.7	5% 1/4W (AEP,G,SP,MY,CH)
△ R802	1-247-739-11	CARBON 100	5% 1/2W F (US,Canadian,AUS,E)
△ R806	1-249-389-11	CARBON 4.7	5% 1/4W F (AEP,G,SP,MY,CH)
△ R806	1-247-739-11	CARBON 100	5% 1/2W F (US,Canadian,AUS,E)
R807	1-249-425-11	CARBON 4.7K	5% 1/4W
R821	1-249-437-11	CARBON 47K	5% 1/4W
R822	1-249-425-11	CARBON 4.7K	5% 1/4W
R950	1-249-421-11	CARBON 2.2K	5% 1/4W
R951	1-249-429-11	CARBON 10K	5% 1/4W
R952	1-247-843-11	CARBON 3.3K	5% 1/4W
R953	1-249-433-11	CARBON 22K	5% 1/4W
R954	1-249-439-11	CARBON 68K	5% 1/4W
R955	1-249-429-11	CARBON 10K	5% 1/4W
R956	1-247-843-11	CARBON 3.3K	5% 1/4W
R957	1-249-417-11	CARBON 1K	5% 1/4W
R958	1-249-401-11	CARBON 47	5% 1/4W (AEP,G,SP,MY,CH)
R960	1-249-429-11	CARBON 10K	5% 1/4W
R961	1-249-401-11	CARBON 47	5% 1/4W (US,Canadian,AUS,E)
RR01	1-249-418-11	CARBON 1.2K	5% 1/4W (AEP,G)
RR51	1-249-418-11	CARBON 1.2K	5% 1/4W (AEP,G)
< RELAY >			
RY701	1-515-920-11	RELAY (24V)	
RY701	1-515-533-11	RELAY	
< TERMINAL >			
TM1	1-537-714-11	TERMINAL BOARD (ANTENNA)	(AEP,G,AUS,SP,MY,CH)
TM1	1-537-240-51	TERMINAL BOARD (CHECKER PIN) (ANTENNA)	(US,Canadian,E)
TM701	1-537-376-11	TERMINAL BOARD (SPEAKER) (SP)	
< TUNER UNIT >			
TU001	1-233-594-11	ENCAPSULATED COMPONENT	(EXCEPT US,Canadian)
TU001	1-233-593-11	ENCAPSULATED COMPONENT (US,Canadian)	
< VIBRATOR >			
X1	1-579-900-21	VIBRATOR, CRYSTAL (4.33MHz) (AEP,G)	

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PRIMARY

SECONDARY

SP SW

SP SW (A)

SP SW (B)

STANDBY

Ref. No.	Part No.	Description	Remark			
*	1-659-972-11	PRIMARY BOARD (EXCEPT E) *****				
	1-533-233-11	HOLDER, FUSE < FUSE >				
△ F901	1-532-388-51	FUSE FUSE, TIME LAG(T2AL/250V) (EXCEPT US, Canadian)				
△ F901	1-576-109-11	FUSE (5A/250V) (US, Canadian) *****				
*	1-659-973-11	SECONDARY BOARD *****				
		< CONNECTOR >				
CNP801	1-764-478-11	PIN, CONNECTOR (PC BOARD) 9P < RESISTOR >				
△ R810	1-249-381-11	CARBON 1 5% 1/4W F				
△ R811	1-249-381-11	CARBON 1 5% 1/4W F				
△ R901	1-202-725-00	SOLID 3.3M 10% 1/2W F (US, Canadian) *****				
*	1-659-974-11	SP SW BOARD *****				
		< CONNECTOR >				
CNP703	1-764-474-11	PIN, CONNECTOR (PC BOARD) 5P				
CNP704	1-764-473-11	PIN, CONNECTOR (PC BOARD) 3P < JACK >				
J741	1-750-733-11	JACK (LARGE TYPE) (PHONES) < RESISTOR >				
R741	1-247-753-11	CARBON 1.2K 5% 1/2W				
R742	1-247-753-11	CARBON 1.2K 5% 1/2W				
R791	1-247-753-11	CARBON 1.2K 5% 1/2W				
R792	1-247-753-11	CARBON 1.2K 5% 1/2W				
RR04	1-249-393-11	CARBON 10 5% 1/4W (AEP,G)				
RR05	1-249-393-11	CARBON 10 5% 1/4W (AEP,G)				
RR54	1-249-393-11	CARBON 10 5% 1/4W (AEP,G)				
RR55	1-249-393-11	CARBON 10 5% 1/4W (AEP,G)				
		< SWITCH >				
S701	1-762-320-11	SWITCH, PUSH (2 KEY) (SPEAKERS A,B) *****				

Ref. No.	Part No.	Description	Remark
*	1-659-975-11	SP SW (A) BOARD *****	

*	1-659-976-11	SP SW (B) BOARD *****	
		< CONNECTOR >	
CNS702	1-770-482-11	CONNECTOR, BOARD TO BOARD 4P *****	
*	1-659-970-11	STANDBY BOARD *****	
	1-533-233-11	HOLDER, FUSE < CONNECTOR >	
CN902	1-564-321-00	PIN, CONNECTOR 2P (E)	
CNP802	1-766-203-11	PLUG, CONNECTOR PIN(PC BOARD)5P	
CNP901	1-564-321-00	PIN, CONNECTOR 2P	
CNP903	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P (AEP,G,AUS,SP,MY,CH)	
* CNP905	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P (E)	
* CNP906	1-564-687-11	PIN, CONNECTOR 3P (E) < JACK >	
△ CNJ902	1-540-057-11	OUTLET, AC (POLAR) (US, Canadian, E) < DIODE >	
D816	8-719-815-85	DIODE 1S1585 (AEP,G)	
D816	8-719-987-63	DIODE 1N4148M (EXCEPT AEP,G)	
		< FUSE >	
△ F902	1-532-464-51	FUSE FUSE, TIME LAG(T2AL/250V) (AEP,G,SP,MY,CH)	
△ F903	1-532-388-51	FUSE, TIME LAG(T2AL/250V) (E) < TERMINAL, EARTH >	
* G900	1-537-738-21	TERMINAL, EARTH (US, Canadian) < RELAY >	
△ RY901	1-515-720-11	RELAY < TRANSFORMER >	
△ T902	1-450-358-11	TRANSFORMER, POWER (EXCEPT US, Canadian)	
△ T902	1-450-361-11	TRANSFORMER, POWER (US, Canadian) *****	

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

TONE VOLUME

Ref. No.	Part No.	Description	Remark
*	A-4389-505-A	TONE BOARD, COMPLETE (EXCEPT AEP,G)	
*	A-4389-526-A	TONE BOARD, COMPLETE (AEP,G)	

< CAPACITOR >			
C421	1-137-440-11	FILM	0.018uF 5% 50V
C422	1-124-463-00	ELECT	0.1uF 20% 50V
C423	1-137-368-11	FILM	0.0047uF 5% 50V
C424	1-137-372-11	FILM	0.022uF 5% 50V
C471	1-137-440-11	FILM	0.018uF 5% 50V
C472	1-124-463-00	ELECT	0.1uF 20% 50V
C473	1-137-368-11	FILM	0.0047uF 5% 50V
C474	1-137-372-11	FILM	0.022uF 5% 50V
< CONNECTOR >			
* CNP203	1-569-799-11	PLUG, CONNECTOR 5P	
CNS401	1-770-399-11	HOUSING, CONNECTOR(PC BOARD)6P	
< DIODE >			
D238	8-719-313-72	LED SEL3810A-CD (BASS BOOST)	
< RESISTOR >			
R236	1-249-419-11	CARBON	1.5K 5% 1/4W (AEP,G)
R236	1-249-411-11	CARBON	330 5% 1/4W (EXCEPT AEP,G)
R237	1-249-421-11	CARBON	2.2K 5% 1/4W (AEP,G)
R237	1-249-413-11	CARBON	470 5% 1/4W (EXCEPT AEP,G)
R238	1-247-843-11	CARBON	3.3K 5% 1/4W (AEP,G)
R238	1-249-415-11	CARBON	680 5% 1/4W (EXCEPT AEP,G)
R239	1-249-425-11	CARBON	4.7K 5% 1/4W (AEP,G)
R239	1-249-417-11	CARBON	1K 5% 1/4W (EXCEPT AEP,G)
R240	1-249-429-11	CARBON	10K 5% 1/4W (AEP,G)
R240	1-249-419-11	CARBON	1.5K 5% 1/4W (EXCEPT AEP,G)
R241	1-247-863-91	CARBON	22K 5% 1/4W (AEP,G)
R241	1-249-421-11	CARBON	2.2K 5% 1/4W (EXCEPT AEP,G)
R243	1-249-429-11	CARBON	10K 5% 1/4W
R244	1-249-425-11	CARBON	4.7K 5% 1/4W
R421	1-249-431-11	CARBON	15K 5% 1/4W
R422	1-249-422-11	CARBON	2.7K 5% 1/4W
R423	1-247-903-00	CARBON	1M 5% 1/4W
R424	1-247-903-00	CARBON	1M 5% 1/4W
R471	1-249-431-11	CARBON	15K 5% 1/4W

Ref. No.	Part No.	Description	Remark
R472	1-249-422-11	CARBON	2.7K 5% 1/4W
R473	1-247-903-00	CARBON	1M 5% 1/4W
R474	1-247-903-00	CARBON	1M 5% 1/4W
R475	1-249-415-11	CARBON	680 5% 1/4W
< VARIABLE RESISTOR >			
RV421	1-223-362-11	RES, VAR, CARBON 100K/100K (BASS)	
RV422	1-223-963-11	RES, VAR, CARBON 125K/125K (TREBLE)	
RV423	1-238-965-21	RES, VAR, CARBON 100K/100K (BALANCE)	
< SWITCH >			
S230	1-554-303-21	SWITCH, TACTILE (PRESET TUNING -)	
S231	1-554-303-21	SWITCH, TACTILE (TUNING -)	
S232	1-554-303-21	SWITCH, TACTILE (PRESET TUNING +)	
S233	1-554-303-21	SWITCH, TACTILE (SHIFT)	
S234	1-554-303-21	SWITCH, TACTILE (FM/AM)	
S235	1-554-303-21	SWITCH, TACTILE (FM MODE)	
S236	1-554-303-21	SWITCH, TACTILE (BASS BOOST)	
S237	1-554-303-21	SWITCH, TACTILE (TUNING +)	
S238	1-554-303-21	SWITCH, TACTILE (MEMORY)	

*	A-4389-504-A	VOLUME BOARD, COMPLETE	

< CAPACITOR >			
C420	1-162-207-31	CERAMIC	22PF 5% 50V
C425	1-126-096-11	ELECT	10uF 20% 35V
C426	1-126-096-11	ELECT	10uF 20% 35V
C427	1-124-252-00	ELECT	0.33uF 20% 50V
C428	1-130-489-00	MYLAR	0.033uF 5% 50V
C429	1-102-973-00	CERAMIC	100PF 5% 50V
C430	1-126-301-11	ELECT	1uF 20% 50V
C431	1-126-301-11	ELECT	1uF 20% 50V
C432	1-126-096-11	ELECT	10uF 20% 35V
C433	1-126-096-11	ELECT	10uF 20% 35V
C470	1-162-207-31	CERAMIC	22PF 5% 50V
C475	1-126-096-11	ELECT	10uF 20% 35V
C476	1-126-096-11	ELECT	10uF 20% 35V
C477	1-124-252-00	ELECT	0.33uF 20% 50V
C478	1-130-489-00	MYLAR	0.033uF 5% 50V
C479	1-102-973-00	CERAMIC	100PF 5% 50V
C492	1-124-464-11	ELECT	0.22uF 20% 50V
< CONNECTOR >			
CNP202	1-770-388-11	PIN, CONNECTOR (PC BOARD) 4P	
CNP401	1-770-390-11	PIN, CONNECTOR (PC BOARD) 6P	
CNS403	1-569-060-11	SOCKET, CONNECTOR 11P	
< DIODE >			
D421	8-719-815-85	DIODE 1S1585 (AEP,G)	
D421	8-719-987-63	DIODE 1N4148M (EXCEPT AEP,G)	

VOLUME

VOLTAGE SELECTOR

Ref. No.	Part No.	Description	Remark
< IC >			
IC404	8-759-636-74	IC M5218AP-22	
< TRANSISTOR >			
Q401	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q402	8-729-922-37	TRANSISTOR 2SD2144S	
Q451	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q452	8-729-922-37	TRANSISTOR 2SD2144S	
< RESISTOR >			
R425	1-249-429-11	CARBON 10K 5% 1/4W	
R426	1-249-439-11	CARBON 68K 5% 1/4W	
R427	1-249-417-11	CARBON 1K 5% 1/4W	
R430	1-249-437-11	CARBON 47K 5% 1/4W	
R431	1-247-843-11	CARBON 3.3K 5% 1/4W	
R432	1-247-883-00	CARBON 150K 5% 1/4W	
R433	1-249-427-11	CARBON 6.8K 5% 1/4W	
R434	1-249-413-11	CARBON 470 5% 1/4W	
R438	1-249-441-11	CARBON 100K 5% 1/4W	
R441	1-249-441-11	CARBON 100K 5% 1/4W	
R444	1-247-903-00	CARBON 1M 5% 1/4W	
R464	1-247-903-00	CARBON 1M 5% 1/4W	
R469	1-247-903-00	CARBON 1M 5% 1/4W	
R475	1-249-429-11	CARBON 10K 5% 1/4W	
R476	1-249-439-11	CARBON 68K 5% 1/4W	
R477	1-249-417-11	CARBON 1K 5% 1/4W	
R480	1-249-437-11	CARBON 47K 5% 1/4W	
R481	1-247-843-11	CARBON 3.3K 5% 1/4W	
R482	1-247-883-00	CARBON 150K 5% 1/4W	
R483	1-249-427-11	CARBON 6.8K 5% 1/4W	
R484	1-249-413-11	CARBON 470 5% 1/4W	
R491	1-249-441-11	CARBON 100K 5% 1/4W	
R492	1-247-903-00	CARBON 1M 5% 1/4W	
R494	1-247-903-00	CARBON 1M 5% 1/4W	
< VARIABLE RESISTOR >			
RV404	1-241-426-11	RES, VAR, CARBON 100KX2 (VOLUME)	

*	1-659-978-11	VOLTAGE SELECTOR BOARD (E)	

*	1-533-233-11	HOLDER, FUSE	
< CONNECTOR >			
* CNP907	1-565-395-11	PIN, CONNECTOR 3P	
CNP908	1-564-321-00	PIN, CONNECTOR 2P	
* CNP910	1-564-687-11	PIN, CONNECTOR 3P	

Ref. No.	Part No.	Description	Remark
< FUSE >			
△ F904	1-532-388-51	FUSE, TIME LAG (T2AL/250V)	
< SWITCH >			
△ S901	1-571-437-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR)	

MISCELLANEOUS			

9	1-765-343-11	WIRE (FLAT TYPE) (23 CORE) (AEP,G,SP,MY,CH)	
9	1-773-114-11	WIRE (FLAT TYPE) (19 CORE) (US,Canadian,AUS,E)	
10	1-769-941-11	WIRE (FLAT TYPE) (11 CORE)	
△ 70	1-696-847-11	CORD, POWER (AUS)	
△ 70	1-769-743-11	CORD, POWER (US,Canadian)	
△ 70	1-769-744-11	CORD, POWER (AEP,G,E,SP,MY,CH)	
△ 71	1-569-008-21	ADAPTOR, CONVERSION 2P (E)	
△ CNJ902	1-540-057-11	OUTLET, AC (POLAR) (US,Canadian,E)	
△ CNJ903	1-251-416-11	OUTLET, A.C. (AUS)	
△ CNJ903	1-526-794-11	OUTLET, AC (AEP,G,SP,MY,CH)	
△ F901	1-532-388-51	FUSE FUSE, TIME LAG (T2AL/250V) (EXCEPT US,Canadian)	
△ F901	1-576-109-11	FUSE (5A/250V) (US,Canadian)	
△ F902	1-532-464-51	FUSE FUSE, TIME LAG (T2AL/250V) (AEP,G,SP,MY,CH)	
△ F903	1-532-388-51	FUSE, TIME LAG (T2AL/250V) (E)	
△ F904	1-532-388-51	FUSE, TIME LAG (T2AL/250V) (E)	
FL201	1-517-141-11	INDICATOR TUBE, FLUORESCENT	
△ T901	1-429-516-11	TRANSFORMER, POWER (US)	
△ T901	1-429-517-11	TRANSFORMER, POWER (Canadian)	
△ T901	1-429-518-11	TRANSFORMER, POWER (AUS)	
△ T901	1-429-519-11	TRANSFORMER, POWER (E)	
△ T901	1-429-520-11	TRANSFORMER, POWER (AEP,G,SP,MY,CH)	

ACCESSORIES & PACKING MATERIALS			

1-473-632-11		REMOTE COMMANDER (RM-U264)	
1-501-374-11		ANTENNA, LOOP	
1-501-594-11		ANTENNA (FM) (AEP,G,AUS,SP,MY,CH)	
1-501-721-11		ANTENNA (LOOP)	
3-810-995-11		MANUAL, INSTRUCTION (ENGLISH,FRENCH,GERMAN,DUTCH)(AEP,G)	
3-810-995-21		MANUAL, INSTRUCTION (ENGLISH)(US)	
3-810-995-31		MANUAL, INSTRUCTION (ENGLISH,FRENCH)(Canadian)	
3-810-995-41		MANUAL, INSTRUCTION (SPANISH,SWEDISH,FINNISH)(AEP)	
3-810-995-71		MANUAL, INSTRUCTION (ENGLISH,FRENCH,SPANISH,CHINESE) (AUS,E,SP,MY,CH)	
4-981-643-01		COVER,BATTERY (FOR RM-U264)	

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Ref. No.	Part No.	Description	Remark
*	4-982-139-02	CUSHION (US,Canadian,AUS,E,SP,MY,CH)	
*	4-982-144-01	INDIVIDUAL CARTON (US,Canadian,AUS,E)	
*	4-982-145-01	INDIVIDUAL CARTON (SP,MY,CH)	
*	4-982-760-01	CUSHION (AEP,G)	
*	4-982-757-01	INDIVIDUAL CARTON (AEP,G)	

HARDWARE LIST

#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 TT(B)
#2	7-682-560-04	SCREW +BVTT 4X6 (S)
#3	7-682-548-04	SCREW +BVTT 3X8 (S)